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WATER SUPPLY OUTLOOK FOR OREGON

Prepared by

U. S. DEPARTMENT of AGRICULTURE * SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY

and
STATE ENGINEER of OREGON

Data included in this report were obtained by the agencies named above in cooperation with other Federal, State and private organizations.



TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

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WATER SUPPLY OUTLOOK FOR OREGON

and FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

JANUARY 8, 1972

Issued by

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Report prepared by

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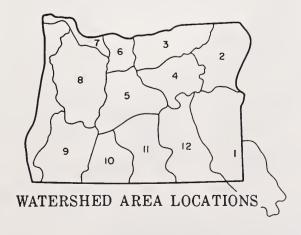
SOIL CONSERVATION SERVICE 1218 S.W. WASHINGTON ST. PORTLAND, OREGON 97205

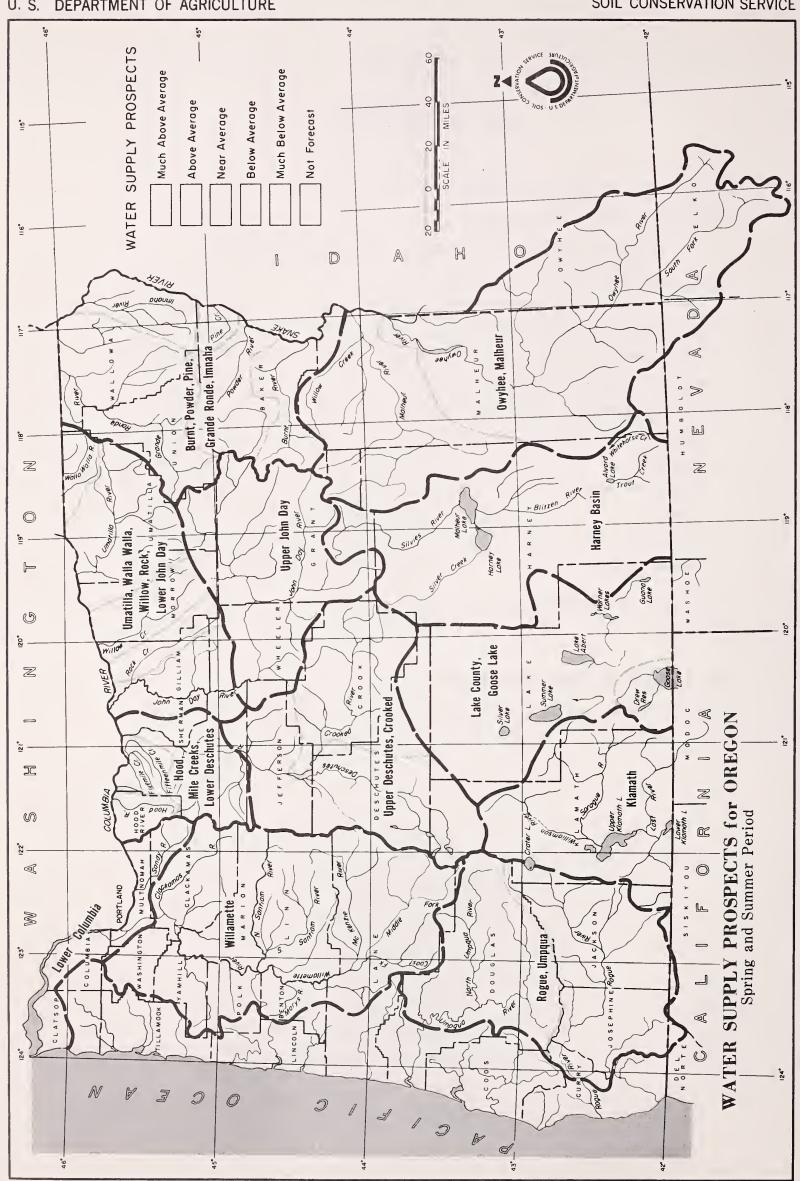


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TABLE OF CONTENTS

PAGE
WATER SUPPLY PROSPECTS FOR OREGON
WATER SUPPLY OUTLOOK FOR OREGON
DETAILED WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS
Owyhee, Malheur Area 1
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA AREA 2
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY AREA
UPPER JOHN DAY AREA
Upper Deschutes, Crooked Area 5
HOOD. MILE CREEKS, LOWER DESCHUTES AREA 6
LOWER COLUMBIA AREA 7
WILLAMETTE AREA 8
ROGUE, UMPQUA AREA 9
KLAMATH AREA 10
LAKE COUNTY, GOOSE LAKE AREA 11
HARNEY BASIN AREA 12
BASIC DATA SUPPLEMENTS ! SNOW II SOIL MOISTURE III PRECIPITATION
MAP AND INDEX OF OREGON SNOW COURSES(MAP)
LIST OF COOPERATORS





WATER SUPPLY OUTLOOK for OREGON

JANUARY 1, 1972

The water supply outlook for Oregon is excellent. A snowpack greater than last year's heavy accumulations has blanketed the mountains. Reservoirs are storing above average amounts. All factors indicate good water supplies for Oregon this next year.

SNOW COVER

The snow cover ranges from a low of 140% on the North Umpqua drainage up to 200% in the Cascades and 300% in the Blue Mountains. Record January 1 measurements were recorded at many snow courses with some exceeding all time records. This is the second year in a row of heavy accumulations in Oregon's mountains.

SOIL MOISTURE

Soils are generally wetter than normal for this time of year, except on the Malheur river. Soils should not absorb more than usual amounts of melting snow water in the spring.

PRECIPITATION

The October-December precipitation has generally been near average to a little above in Western Oregon and the Cascades. It was above average in Eastern Oregon except in Lake County where rainfall was 80% of normal. The good precipitation conditions, combined with the cool temperatures, has caused the heavy snow buildup on the State's watersheds.

continued on next page

RESERVOIR STORAGE

Reservoirs are storing greater than average amounts for January 1. Total usable contents in twenty-two major reservoirs are 134% of average. Most reservoirs are expected to fill when the spring runoff comes.

STREAMFLOW

Streamflow has varied considerably around the state. Amounts have been much above average to average ranging on down to a low of 50% of normal on the Grande Ronde. Representative streams are as follows:

	OCT-DEC STREAMFLOW
STREAM	As % of Average
Owyhee Net Inflow	120
Umatilla near Pendleton	130
John Day at Service Creek	8 5
Deschutes at Moody	100
Grande Ronde at La Grande	e 50
Willamette at Salem	125
Umpqua near Elkton	135
Rogue	100
Klamath Lake net Inflow	95

^{*} This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.





WATER SUPPLY OUTLOOK OWYHEE, MALHEUR WATERSHEDS

OREGON

as of

JANUARY 1, 1972

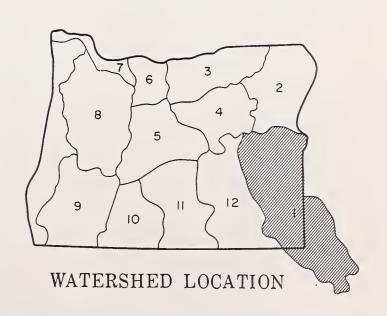
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IS EXCELLENT FOR NEXT SUMMER. CONDITIONS EXCEED THE ROSY PICTURE THAT WAS PRESENTED FOR LAST YEAR. THE SNOW-PACK IS 250 TO 300 PERCENT OF AVERAGE FOR JANUARY 1. SOILS UNDER THE SNOWPACK CONTAIN AN AVERAGE AMOUNT OF MOISTURE, EXCEPT ON THE MALHEUR WHERE THEY ARE WETTED ABOUT HALF OF THE NORMAL AMOUNT. CURRENT STREAMFLOW HAS BEEN GOOD IN SPITE OF THE COLD WEATHER AND AS A RESULT RESERVOIRS STORAGE IS ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow Period			
STREAM or AREA	Spring Season	Late Season		
Boulder Creek Bully Creek Cow Creek Jordan Creek Jordan Valley Irrig. Dist. McDermitt Creek Oregon Canyon Creek Owyhee Project Succor Creek Tenmile Creek Vale-Oregon Irrig. Dist. Warmsprings Irrig. Dist. Willow Creek (Reservoired)	the Febru report wh be issued	ich will		



	THIS YEAR		PAST R	ECORD
FORECAST		FORECAST	THOUSAND ACRE FEET	
Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average 1
С				
С	MOTER	EODECACAC D	FOIN ON FEB	1 1072
i	NOIE:	FURECASIS B	EGIN ON FEB.	1, 19/2.
	Thousand Acre Feet	FORECAST Thousand Acre Feet Percent of Average C C C C C C NOTE:	FORECAST Thousand Acre Feet Percent of Average PERIOD C C C C C NOTE: FORECASTS B	FORECAST Thousand Acre Feet Percent of Average PERIOD C C C C C C C C C C C C C C C C C C

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	Februar will be	sts begin in the state of the s	which out

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

WESERTOIN STORAGE (Inououna	NO. 1 (.)	END OF	PIONTH	
DECENVOIR	Usable	Usable Storage			
RESERVOIR	Capacity	This Year	Last Year	Average i	
		1	[
Antelope	70.0	5.7	20.5	4.0	
Beulah Res.	60.0	25.5	21.0	17.4	
Bully Creek	30.0	7.2	13.9		
Owyhee	715.0	526.2	582.0	330.8	
Warmsprings	191.0	110.7	125.9	62.0	

SOIL MOISTURE

RIVER BASIN	Number of	THIS YEAR'S MOISTURE as PERCENT OF:		
	Stations	Last Year	Average i	
Jordan Creek Malheur River Owyhee River	ь 1 с	55	59	

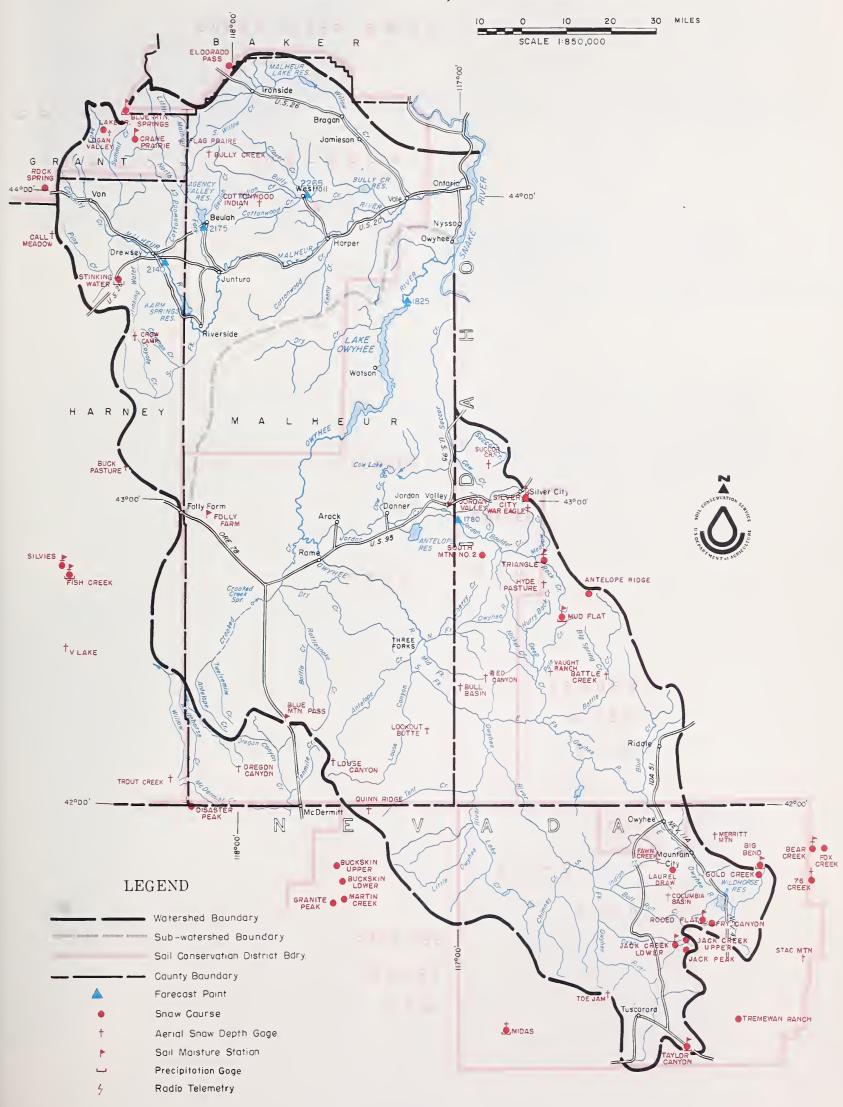
SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN of Stations as PERCENT OF: Last Year Average i) Tordan Creek Malheur River Owyhee River Dowyhee River RIVER BASIN SUB-WATERSHED RIVER BASIN SUB-WATERSHED Number of Courses Averaged Last Year Average i) Average i Dordan Creek Malheur River Owyhee River Dowyhee River Average i Average i Dordan Creek Malheur River Owyhee River Dowyhee River Number of Courses Averaged Last Year Average i Average i		Number	THIS YEAR'S	MOISTURE	(COMPARISON WITH PREVIOUS TE	=AKS)				
Jordan Creek Malheur River Cryphon	RIVER BASIN	of	as PERCENT OF:		of as PERCENT OF:		and/or	Courses	WATER AS	PERCENT OF
Malheur River 1 55 59 Malheur River 4 116 247		<u> </u>			SUB-WATERSHED	Averaged	Last Year	Average i		
	Malheur River	b 1			Jordan Creek Malheur River	Averaged 2 4	120 116	Average i 298 247		
				ı						

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

OWYHEE, MALHEUR WATERSHEDS







WATER SUPPLY OUTLOOK BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS **OREGON**

as of JANUARY 1, 1972

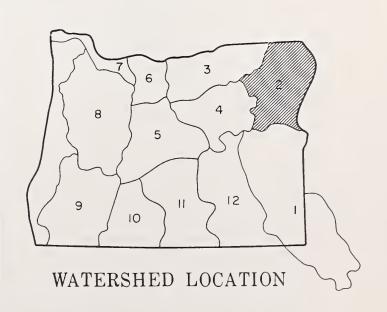
U.S.D.A.SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR NEXT SUMMER IS EXCELLENT. THE SNOW-PACK ON MOUNTAIN WATERSHEDS IS 2 1/2 TIMES THE JANUARY 1 AVERAGE. RECORD MEASUREMENTS WERE MADE AT BEAVER RESERVOIR ABOVE LA GRANDE AND AT OTHER COURSES IN THE BLUE MOUNTAINS. SOILS UNDER THE SNOW ARE WETTER THAN USUAL. RESERVOIRS ARE STORING NORMAL AMOUNTS OF WATER FOR THIS TIME OF YEAR. STREAMFLOW HAS BEEN LOW DUE TO THE COLD WEATHER.

WATER CURRILY OUTLAND Expressed as "Poor, Fair, Average, Ex-

WAIER SUPPLY UUILUUK cellent" With Respect to Usual Supply							
	Flow Period						
STREAM or AREA	Spring Season	Late Season					
Alder Slope Baker Valley Big Creek Clover Cr. (nr. N. Powder) Cove Durkee Eagle Valley Elgin Enterprise-Joseph Hereford-Bridgeport Imnaha River LaGrande-Island City Lostine-Wallowa No. Powder River-Wolf Creek Pine Valley Powder River-Elk Creek Summerville Sumpter Valley Union-Hot Lake Unity	the Febr report w be issue	hich will					



T.A. GEORGE AND H.M. VANCE

STREAMFLOW FORECASTS THIS YEAR PAST RECORD THOUSAND ACRE FEET FORECAST FORECAST Thousand Acre Feet Percent of Average BASIN, STREAM and/or FORECAST POINT Average + Last Year PERIOD Bear near Wallowa С Burnt near Hereford С Catherine near Union cEagle Creek above Skull Creek Grande Ronde at La Grande С NOTE: FORECASTS BEGIN ON FEB. 1, 1972. Hurricane near Joseph С Impaha at Impaha С Lostine near Lostine С Powder near Sumpter С Wallowa, East Fork near Joseph

RIVER BASIN	Number	THIS YEAR'S MOISTURE as PERCENT OF:		RESERVOIR	Usable		Usable St	orage
	Stations	Last Year	Average i	KESEKVOIK	Capacity	This Year	Last Year	
urnt, Powder cande Ronde, Catherine	1		97	Phillips Lake Thief Valley	73.5 17.4	48.8 17.4	53.8	
Cr., Imnaha River	2	104	120	Unity Wallowa Lake	25.2	8.6	8.9	6.
				SUMMARY OF SNOW ME (COMPARISON WITH PREVIOUS RIVER BASIN and/or		of W	ATER AS F	AR'S SNOW PERCENT O
				SUB-WATERSHED	Average	co La	st Year	Average
				Burnt River Grande Ronde River	3		127	238
				above La Grande Powder River	3 2		246 [°] 140	263 227
				Wallowa, Imnaha, Catherine Creek	c		140	<i>441</i>

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS







WATER SUPPLY OUTLOOK UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

 $as\ of$

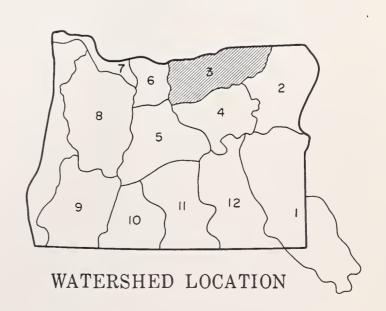
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OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

AN EXCELLENT WATER SUPPLY IS IN PROSPECT FOR UMATILLA, MORROW AND GILLIAM COUNTIES. A RECORD SNOWPACK FOR JANUARY 1 HAS BEEN MEAS-URED THROUGHOUT THE BLUE MOUNTAINS. IT IS FOUR TO FIVE TIMES THE 1953-67 NORMAL. SOIL MOISTURE IS NEAR AVERAGE. RESERVOIR STORAGE IS EXCELLENT WITH McKAY BEING OVER HALF FULL. STREAMFLOW ON THE UMATILLA AT PENDLETON FROM OCTOBER TO JANUARY 1 HAS BEEN 130 PERCENT OF AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Walla Walla River, N. Fk. Walla Walla River, S. Fk. Walla Walla River, Main Walla Walla River, Little Couse Creek Dry Creek Pine Creek Umatilla River, Main Wildhorse Creek Umatilla R. (Cold Springs Reservoir) Umatilla R. (McKay Res.) McKay Creek Birch Creek Butter Creek Willow Creek Rhea Creek Rock Creek (John Day Tributary)	the Febru report wh be issued	ich will



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.

TREAMFLOW FORECASTS		THIS YEAR	PAST RECORD			
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average	
Birch Creek at Rieth Butter Creek near Pine City McKay near Pilot Rock Umatilla near Gibbon Umatilla at Pendleton Walla Walla, North Fork near Milton Walla Walla, South Fork near Milton	c c c c	NOTE:	FORECASTS	BEGIN ON FEB.	1, 1972.	

FORECAST DATE of IOW FLOW VALUES

RECERVOIR STORAGE (Thousand Ac Et) sup of

FURECASI DATE OF LOW	LLOM ANTOE2	KESEKANIK SINKARE (1	nousanu	AU. FL.	END OF	MONTH	
FORECAST POINT	Low Flow Value Forecast Date Stream Will of Low Flow	RESERVOIR	Usable Capacity	Usable Storage			
FORECAST POINT	Value Second/Ft. Recede to Low Flow Value Value	RESERVOIR		This Year	Last Year	Average †	
Umatilla at Pendleton	Forecasts begin in the February 1 report which will be issued about February 10, 1972.	Cold Springs McKay	50.0 73.8	21.5 44.0	25.8 22.1	20.2	
		CHMMADV of CNOW ME	WACIIDEM	ENTC			

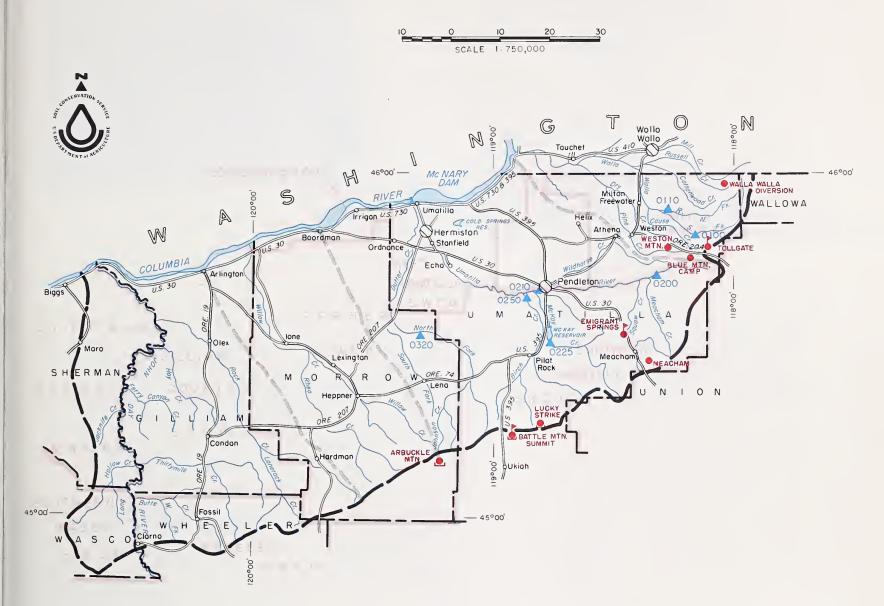
SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

01E 111010101E			(COMPARISON WITH PREVIOUS YEARS)					
RIVER BASIN	Number of THIS YEAR'S MOISTURE as PERCENT OF:			RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF		
	Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i	
Umatilla, Walla Walla, McKay Creek	3	101	102	McKay Creek Umatilla River Walla Walla River	2 3 2	387 298 272	527 372 375	

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base per

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS





Snaw Course

Sail Moisture Station

LEGEND





WATER SUPPLY OUTLOOK UPPER JOHN DAY WATERSHEDS OREGON

as of January 1, 1972

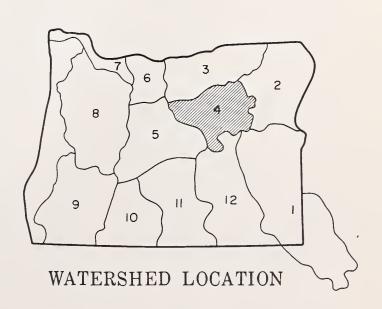
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GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THIS COMING SUMMER IS EXCELLENT. THE JANUARY I SNOWPACK IS 2 1/2 TIMES THE AVERAGE. RECORD AMOUNTS OF SNOW WERE MEASURED AT BATTLE MOUNTAIN SUMMIT, BEECH CREEK, AND STARR RIDGE. SOIL MOISTURE CONDITIONS ARE ABOUT AVERAGE FOR THIS TIME OF YEAR. STREAMFLOW HAS BEEN SLIGHTLY BELOW AVERAGE BECAUSE OF THE COLD TEMPERATURES.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

WAIER SUPPLY UUILUUN cell	ent" With Respect	t to Usual Supply.
	Flow F	eriod
STREAM or AREA	Spring Season	Late Season
Beech Creek Beech Creek-Fox-Long Cr. Bridge-Mountain Creeks Camas Creek Cherry Creek Indian-Pine Creeks John Day River, Main Fork John Day River, Mid. Fork John Day River, N. Fork John Day River, S. Fork Monument-Kimberly Strawberry Creek	the Febru report wh be issued	ich will



		THIS YEAR	Y PAST R	PAST RECORD		
	FORECAST		FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +	
Camas Creek near Ukiah John Day at Prairie City John Day, Middle Fork at Ritter John Day, North Fork at Monument Strawberry near Prairie City	c c c c c c	NOTE:	FORECASTS E	BEGIN ON FEB.	1, 1972.	

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

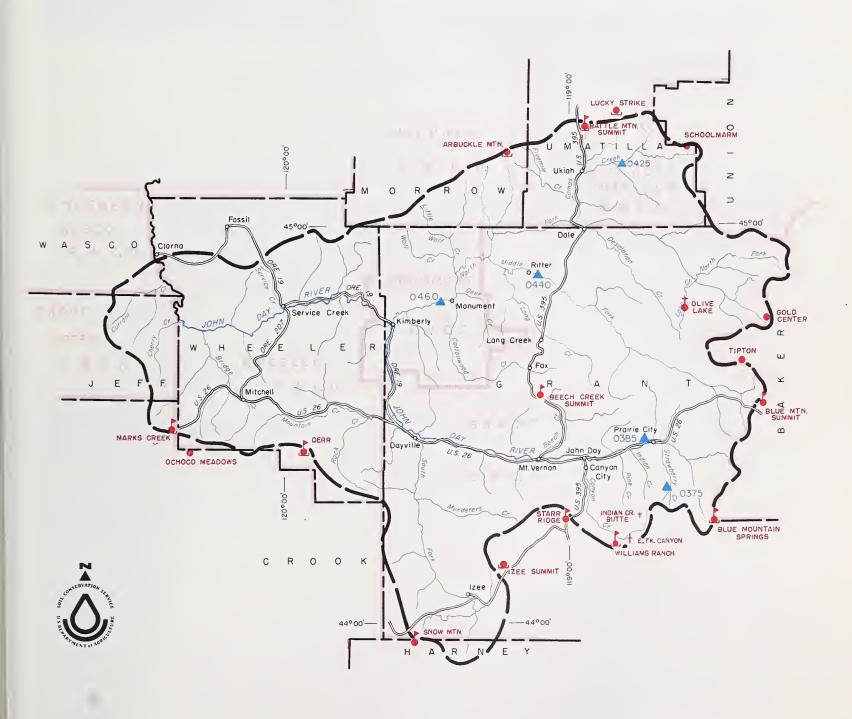
(COMPARISON WITH PREVIOUS YEARS)

DIVED DACIN	Number of	THIS YEAR	'S MOISTURE CENT OF:	RIVER BASIN	Number of	THIS YE	AR'S SNOW PERCENT OF
RIVER BASIN	Stations	Last Year	Average i	and/or SUB-WATERSHED	Courses Averaged	Last Year	Average i
John Day abv. Dayville John Day, North Fork	Stations 4 1			SUB-WATERSHED John Day, North Fork John Day abv. Dayville	Averaged 3 3		

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UPPER JOHN DAY WATERSHEDS





Wotershed Boundory Sub-wotershed Boundory Soil Conservation District Bdry. County Boundory Forecast Point Snow Course Soil Moisture Station Aerial Snow Depth Gage Precipitation Gage





WATER SUPPLY OUTLOOK UPPER DESCHUTES, CROOKED WATERSHEDS **OREGON**

as of

JANUARY 1, 1972

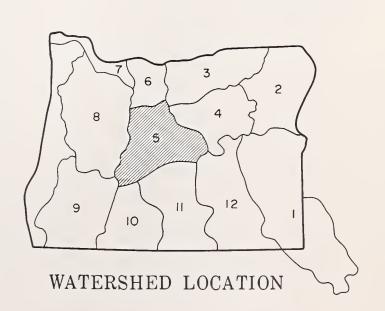
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GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR CENTRAL OREGON. THE MOUNTAIN SNOWPACK IS TWICE THE AVERAGE FOR JANUARY 1. RESERVOIRS ON THE DESCHUTES ARE STORING AMOUNTS 120 PERCENT OF AVERAGE. THIS IS THE BEST SINCE 1965. STREAMFLOW ON THE DESCHUTES FROM OCTOBER TO JANUARY 1 HAS BEEN NEAR NORMAL.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow P	eriod
STREAM or AREA	Spring Season	Late Season
Arnold Irrigation District Bear Creek Beaver Creek Camp Creek Central Ore. Irrig. Dist. Crooked River Deschutes River Hay-Trout Creeks Lone Pine Irrig. Dist. Mill Creek North Unit Irrig. Dist. Ochoco Creek Sisters Irrigation Dist. Snow Creek Irrig. Dist. Squaw Creek Irrig. Dist. Swalley Ditch Tumalo Project Walker Basin Irrig. Dist.	the Febru report wh be issued	ich will



Report prepared by -

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STREAMFLOW FORECASTS	ĺ	THIS YEAR			PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND A	CRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average		
Beaver Creek near Paulina Crane Prairie Reservoir total Inflow Crescent at Crescent Lake Crooked near Post Deschutes at Benham Falls Deschutes below Snow Creek Deschutes, Little near La Pine Ochoco Reservoir net Inflow Odell near Crescent Squaw near Sisters Tumalo near Bend	C C C C C C C C C C C C C C C C C C C	NOTE:	FORECASTS BEO	GIN ON FEB. 1	., 1972.		

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

			HEDERTOIN OTORNAE (
FORECAST POINT	FORECAST POINT Low Flow Stream Will Recede to Low Flow Value Flow Value Second/Ft. Forecast Date Stream Will Recede to Low Flow Value Average Date of Low Flow Value		PESERVOIR	Usable	Usable Storage			
TORECAST TOTAL			Capacity	This Year	Last Year	Average †		
Deschutes at Bend Little Deschutes near La Pine Crane Prairie net Inflow	Februar will be	sts begin in the ry 1 report which e issued about ry 10, 1972.	Crane Prairie Crescent Lake Ochoco Prineville Wickiup	55.3 86.9 47.5 153.0 200.0	48.9 64.8 27.9 93.0 180.9	37.9 34.8 23.5 91.0 94.2	40.2 44.3 19.2 103.5 134.6	

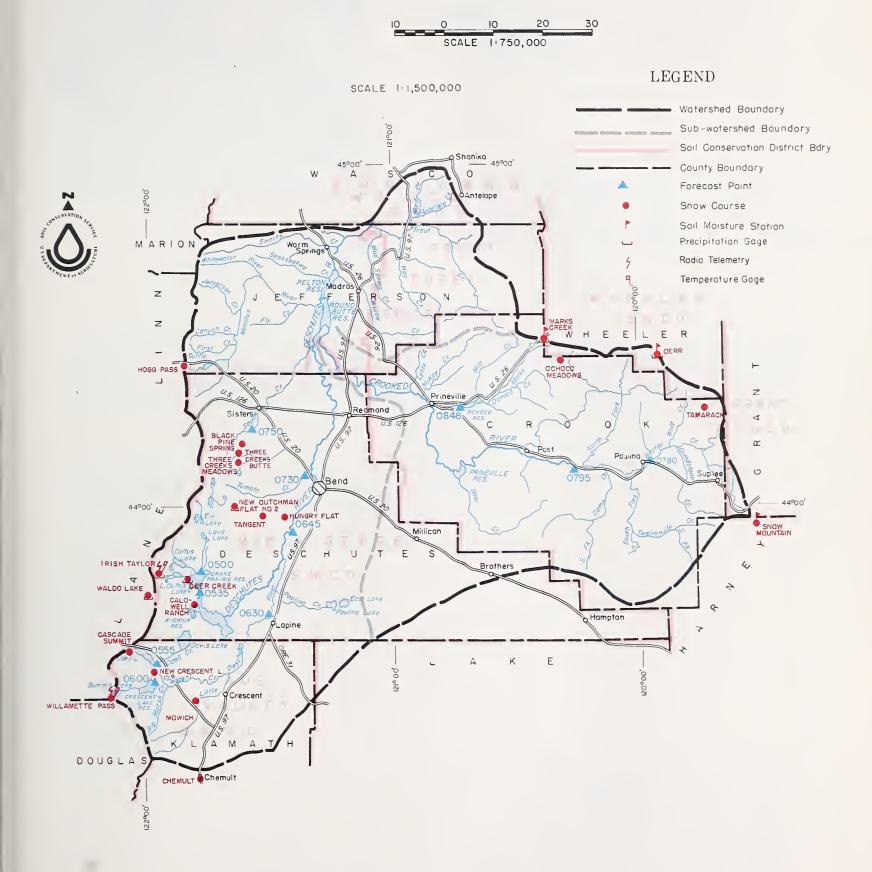
SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

OIL MOIOTORE				(COMPARISON WITH PREVIOUS YE					
RIVER BASIN	Number of Stations	as PERCENT OF:		RIVER BASIN			WATER AS PERCENT OF		
	Stations	Last Year	Average 1	SUB-WATERSHED	Averaged	Last Year	Average		
Crooked R., Upper Deschutes River	c			Crooked, Ochoco Deschutes abv. Wickiup Little Deschutes Tumalo & Squaw Crs.	1 2 2	114 123 108	209 198 204		

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

UPPER DESCHUTES, CROOKED WATERSHEDS







WATER SUPPLY OUTLOOK HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

as of JANUARY 1, 1972

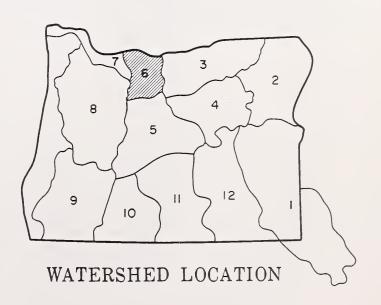
U.S.D.A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR NEXT SUMMER IS EXCELLENT. A VERY HEAVY MOUNTAIN SNOWPACK HAS ACCUMULATED. IT IS 230 PERCENT OF AVERAGE. SOIL MOISTURE IS NEAR AVERAGE FOR THIS TIME OF YEAR. A RECORD SNOW MEASUREMENT FOR JANUARY 1 WAS MADE AT CLEAR LAKE NEAR MT. HOOD.

Expressed as "Poor Fair, Average, Ex-

	Flow Pe	riod
STREAM or AREA	Spring Season	Late Season
Aldridge Ditch (Tony Creek) Badger Creek Dee Irrigation Dist. East Fork Irrig. Dist. Farmers Irrigation Dist. Hood River Irrig. Dist. Juniper Flat Middle Fork Irrig. Dist. Mile Creeks Mill Creek Mount Hood Irrig. Dist. Rock-Gate-Threemile Crs. Tygh Creek White River	Forecasts the Februa report whi be issued February 1	ry l .ch will about



T.A. GEORGE AND H.M. VANCE

REAMFLOW FORECASTS		THIS YEAR			PAST RECORD		
	FOR	ECAST	FORECAST	THOUSAND A	CRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average		
ood River near Tucker Bridge ood, West Fork near Dee hite below Tygh Valley	c c c	NOTE:	FORECASTS B	EGIN ON FEB.	1, 1972.		
	-						

FORECAST DATE of LOW FLOW VALUES

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

Total of Lott 11201 The Lott				TEOERTON OTORAGE (THOUSAND THE TEND OF MONTH					
FORECAST POINT	Low Flow Forecast Date Average Date		DESERVOIR	Usable	Usable Storage				
	Second/Ft.	Value Danada to Low Flow		RESERVOIR	Capacity	This Year	Last Year	Average i	
Clear Branch Inflow	Foreca Februa will b	sts begin in the ry 1 report which e issued about ry 10, 1972.		Clear Lake (Wasco) *Reading 12/21/71. **Reading 12/22/70.	11.9	6.8*	Year 4.2**	Average	

SOIL MOISTURE

SUMMARY of SNOW MEASUREMENTS

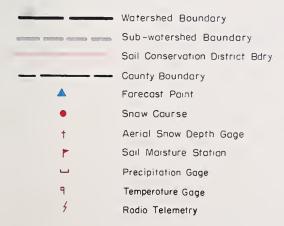
SOIL MOISTONE					(COMPARISON WITH PREVIOUS YEARS)					
Number of	of as PERCENT OF:		RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF					
Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average ¿				
1	100	~-	Hood River	4 c	150	230				
			White River	3	171	239				
	-									
	,									
	of Stations	of Last Year 1 100	of Stations Last Year Average 1 1 100	Number of Stations THIS YEAR'S MOISTURE as PERCENT OF: Last Year Average i 1 100 Hood River Mile Creeks White River	Number of Stations THIS YEAR'S MOISTURE as PERCENT OF: Last Year Average 1 1 100 Hood River Mile Creeks White River 3	Number of Stations THIS YEAR'S MOISTURE as PERCENT OF: Last Year Average i 1 100 Hood River Mile Creeks White River 3 171				

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS



LEGEND







WATER SUPPLY OUTLOOK LOWER COLUMBIA WATERSHEDS OREGON

 $as\ of$ JANUARY 1, 1972

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GENERAL OUTLOOK

ABUNDANT WATER SUPPLIES ARE EXPECTED FOR THE COLUMBIA BASIN. THE SNOWPACK GENERALLY RANGES FROM 135 TO OVER 300 PERCENT OF AVERAGE. IT GENERALLY EQUALS THE FEBRUARY 1 AVERAGE WITH SOME LOWER ELEVATION AREAS OF OREGON AND SOUTHERN IDAHO HAVING SNOWPACKS APPROACHING THE MARCH FIRST AND APRIL FIRST AVERAGES. SOIL MOISTURE IS NEAR AVERAGE OR ABOVE, EXCEPT IN MONTANA AND CANADA WHERE IT TENDS TO BE DRIER THAN USUAL. RIVER STAGES ALONG THE LOWER COLUMBIA SHOULD BE WELL ABOVE NORMAL DURING LATE SPRING AND EARLY SUMMER.



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or	Number of Courses	THIS YEAR'S SNOW WATER AS PERCENT OF		
SUB-WATERSHED	Averaged	Last Year	Average i	
Sandy River	2	170	230	

STREAMFLOW FORECASTS		THIS YEAR	PAST RECORD		
	FORECAST		FORECAST	THOUSAND ACRE FEET	
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average i
Columbia at The Dalles Sandy River near Marmot		NOTE: FO	ORECASTS BEGIN	ON FEB. 1,	1972.

HISTORICAL DATA (Columbia River at The Dalles)

V-15	9	STREAMFLOW (1,000 A.F.	PEAK		
YEAR	APR SEPT.	APR. — JUNE	MAY - JUNE	(1,000 c.f.s)	DATE
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,903	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

DRAINAGE DISTRICT PUMPHOUSE								
VANCOUVER	FLOW AT	SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
GAGE	THE DALLES				RIVER MILES			
(Weather Bu.)	(1,000 c.f.s)	118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

LOWER COLUMBIA WATERSHEDS





LEGEND Watershed Boundary Sub-watershed Boundary Soil Conservation District Bdry. County Boundary River Miles Snow Course Temperature Radio Telemetry Forecast Point





WATER SUPPLY OUTLOOK WILLAMETTE WATERSHEDS **OREGON**

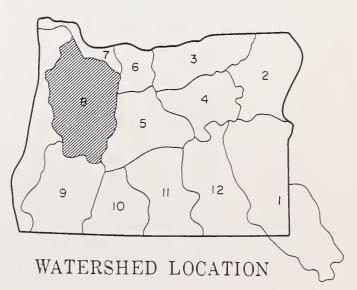
as of JANUARY 1, 1972

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GENERAL OUTLOOK

WILLAMETTE BASIN WATER USERS WILL HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE EARLY SEASON SNOWPACK VARIES FROM 214 PERCENJ OF AVERAGE ON THE UPPER McKENZIE RIVER TO 399 PERCENT ON THE ROW RIVER, AND IS ABOUT 150 PERCENT OF LAST YEARS EXCELLENT SNOWPACK. THE WILLAMETTE RIVER NEAR SALEM FLOWED 120 PERCENT OF AVERAGE DURING DECEMBER AND 123 PERCENT DURING THE OCTOBER THROUGH DECEMBER PERIOD MULTIPURPOSE POWER RESERVOIRS ARE BEING HELD AT THEIR USUAL LOW LEVELS FOR THIS TIME OF YEAR.

WATER SUPPLY OUTLOOK	ssed as "Poor, Fa ent" With Respect			
	Flow Period			
STREAM or AREA	Spring Season	Late Season		
Calapooya Clackamas McKenzie Molalla Santiam, North Santiam, South Willamette, Coast Fork Willamette, Middle Fork	Forecasts the Februa report whi be issued February 1	ry 1 ch will about		



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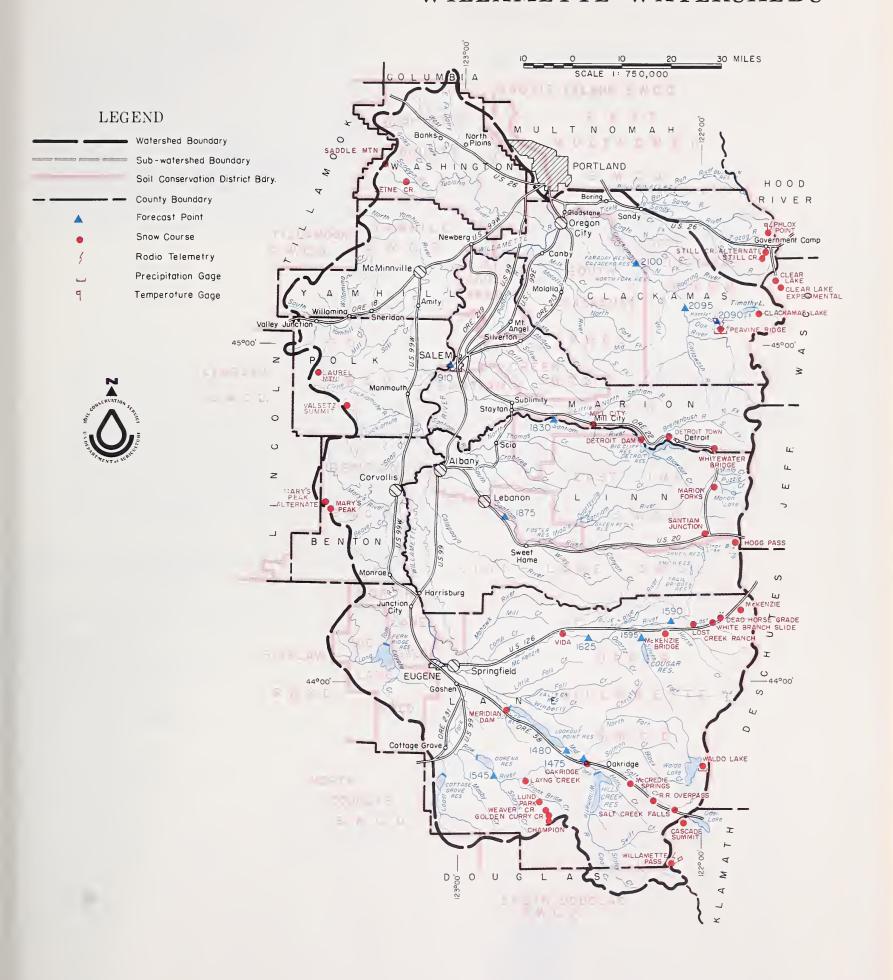
TREAMFLOW FORECASTS		THIS YEAR	PAST	PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average +	
Clackamas at Estacada Clackamas above Three Lynx McKenzie at McKenzie Bridge McKenzie near Vida McKenzie, South Fork near Rainbow Oak Grove Fork above Power Intake Row near Dorena Santiam, North at Mehama Santiam, South at Waterloo Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge Willamette, Mid. Fk. abv. Salt Cr. nr. Oakridge Willamette, No. Fk. of Mid. Fk. near Oakridge Willamette at Salem		NOTE:	FORECASTS	BEGIN ON FEB.	1, 1972.	

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS) RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable	U	sable Stora	ge	RIVER BASIN and/or	Number of Courses	WATER AS	AR'S SNOW PERCENT OF
RESERVOIR	Capacity	This Year	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average l
Blue River Cottage Grove Cougar Detroit Dorena Fall Creek Fern Ridge Foster Green Peter Hills Creek Lookout Point Cimothy Lake fultiple purpose reservoirspace reserved primarily for flood runoff.	85.6* 30.0* 155.2* 299.9* 70.5* 115.0* 94.2* 30.0* 270.0* 201.7	0.0 0.0 5.0 0.0 0.0 0.0 0.2 0.0 8.7 0.0 51.4	2.1 2.0 0.0 0.8 4.0 0.0 9.9 2.3 16.3 2.7 4.6 47.0		Clackamas River McKenzie River Row River Santiam River Willamette, Mid. Fk.	1 3 2 4 3	176 151 101 111 150	338 214 399 226 258

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WILLAMETTE WATERSHEDS







WATER SUPPLY OUTLOOK ROGUE, UMPQUA, WATERSHEDS OREGON

as of

JANUARY 1, 1972

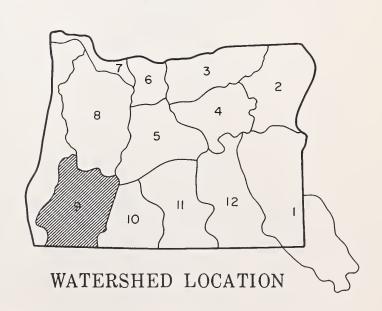
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GENERAL OUTLOOK

WATER USERS IN THE ROGUE AND UMPQUA BASINS WILL HAVE EXCELLENT WATER SUPPLY PROSPECTS DURING THE 1972 SEASON. THE EARLY SEASON SNOWPACK IS 200 TO 270 PERCENT OF AVERAGE AND ABOUT 150 PERCENT OF LAST YEARS. PRECIPITATION FOR DECEMBER WAS 99 PERCENT OF AVERAGE AND 107 PERCENT FOR THE OCTOBER TO DECEMBER PERIOD. THE ROGUE RIVER AT RAYGOLD FLOWED 90 PERCENT OF AVERAGE DURING DECEMBER AND 97 PERCENT OF AVERAGE DURING THE OCTOBER-DECEMBER PERIOD. THE UMPQUA NEAR ELKTON FLOWED 138 PERCENT OF AVERAGE DURING DECEMBER AND 135 PERCENT DURING THE OCTOBER TO DECEMBER PERIOD. AREA RESERVOIRS WERE HOLDING 137 PERCENT OF AVERAGE AMOUNTS ON JANUARY 1.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow F	Period
STREAM or AREA	Spring Season	Late Season
Althouse Creek Applegate River, Big Applegate River, Little Ashland Creek Butte Creek, Big Butte Creek, Little Cow Creek Deer Creek Elk Creek Emigrant Creek (abv. Res.) Evans Creek Gold Hill Irrig. Dist. Grants Pass Irrig. Dist. Grave Creek Illinois River, East Fork Illinois River, West Fork Jump-off-Joe Creek Neil Creek Red Blanket Creek Rogue River Sucker Creek Table Rock Irrig. Dist. Thompson Creek Wagner Creek Williams Creek	The Febr report w be issue	which will



T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

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STREAMFLOW FORECASTS		THIS YEAR		PAST R	RECORD	
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average ·i	
Applegate near Copper Clearwater above Trap Creek Fourmile Lake net Inflow Hyatt Reservoir net Inflow Illinois River near Kerby Little Butte, N. Fk. at Fish Lk. nr. Lake Cr. Little Butte, So. Fk. nr. Lake Creek Rogue above Prospect Rogue, South Fork near Prospect Rogue River below South Fork Rogue at Raygold near Central Point Rogue at Grants Pass Umpqua, No. blw. Lemolo Lake nr. Toketee Falls		NOTE:		Last Year BEGIN ON FEB.		

RESERVOIR	STORAGE	(Thousand	Ac.	Ft.)	END OF MONTH
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147

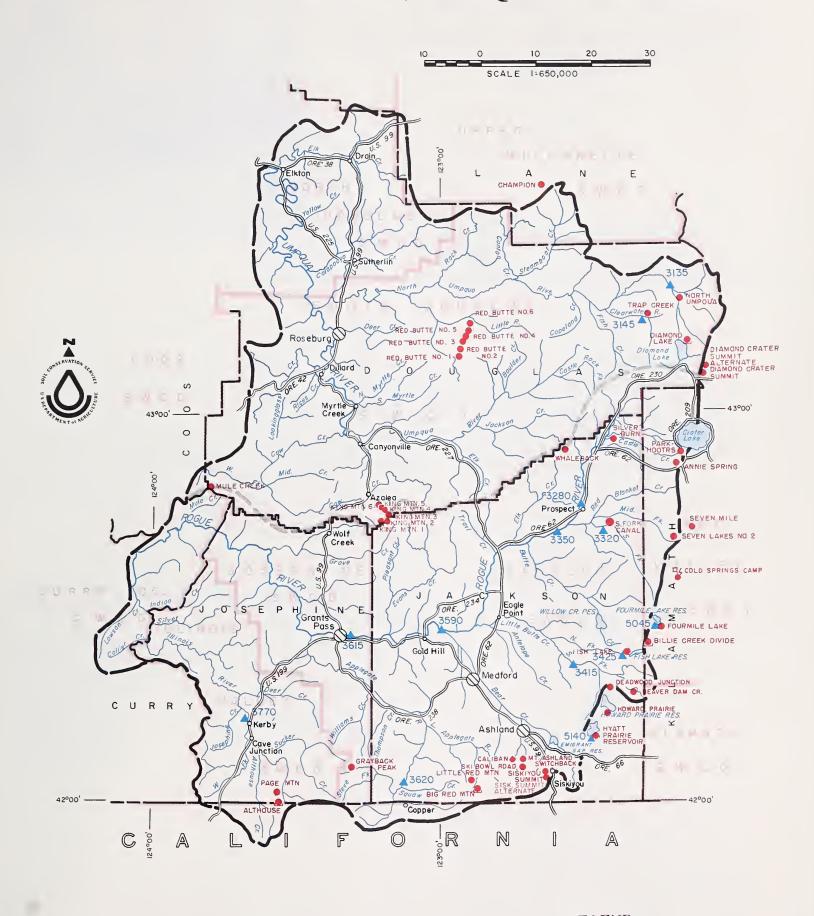
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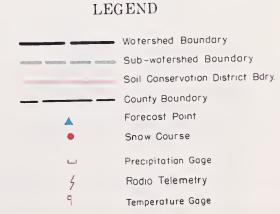
FORECAST DATE of LOW	FLOW VALUE	ES	RESERVOIR STORAGE (Thousand	Ac. F	t.) END C	F MONTH
FORECAST POINT	Low Flow	Forecast Date Stream Will Average Date of Low Flow	RESERVOIR	Usable		Usable St	orage
	1 - 17	Flow Value	KESEKVOIK	Capacity	This Year	Last Year	Average i
Rogue at Raygold Little Butte Creek, South Fork	February will be	s begin in the 1 report which issued about 10, 1972.	Emigrant Lake Fish Lake Fourmile Lake Howard Prairie Hyatt Prairie *Average for years of record after reconstruction.	39.0 7.8 16.1 60.0 16.1	21.3 7.9 c 49.0 13.9	5.0 6.2 0 46.2	5.2 2 8.8 2 32.8
			SUMMARY OF SNOW MI		ENTS		
			RIVER BASIN and/or	Numbe Cour	ses	WATER AS I	AR'S SNOW PERCENT OF
			SUB-WATERSHED	Avera	aged	Last Year	Average i
			Applegate	c			
			Bear Creek	1		56	266
			Butte Creek Illinois River	4		147	274
			North Umpqua	2		156	181

Rogue River

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-6 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

ROGUE, UMPQUA WATERSHEDS









WATER SUPPLY OUTLOOK KLAMATH WATERSHEDS OREGON

as of

JANUARY 1, 1972

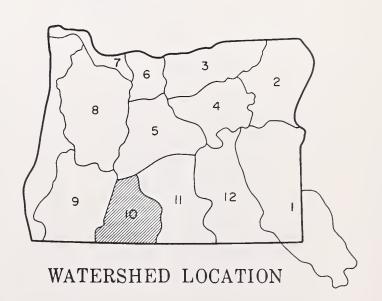
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GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IS EXCELLENT DURING THE 1972 SEASON FOR KLAMATH BASIN WATER USERS. THE EARLY SEASON MOUNTAIN SNOWPACK IS NEAR LAST YEARS HIGH LEVELS, RANGING FROM 163 PERCENT OF AVERAGE ON THE LOST RIVER TO 212 PERCENT ON THE UPPER KLAMATH DRAINAGE. SOIL MOISTURE WAS NEAR AVERAGE. RESERVOIR STORAGE WAS NEAR AVERAGE FOR JANUARY 1. NET INFLOW INTO UPPER KLAMATH LAKE WAS 86 PERCENT OF AVERAGE DURING DECEMBER AND 95 PERCENT FOR THE OCTOBER THROUGH DECEMBER PERIOD.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow F	Period
STREAM or AREA	Spring Season	Late Season
Ft. Klamath Valley Lost River (Clear Lake) Lost River (Gerber) Lost River (Willow Res.) Sprague River Upper Klamath Lake Williamson River	the Febru report wh be issued	nich will



T.A. GEORGE AND H.M. VANCE

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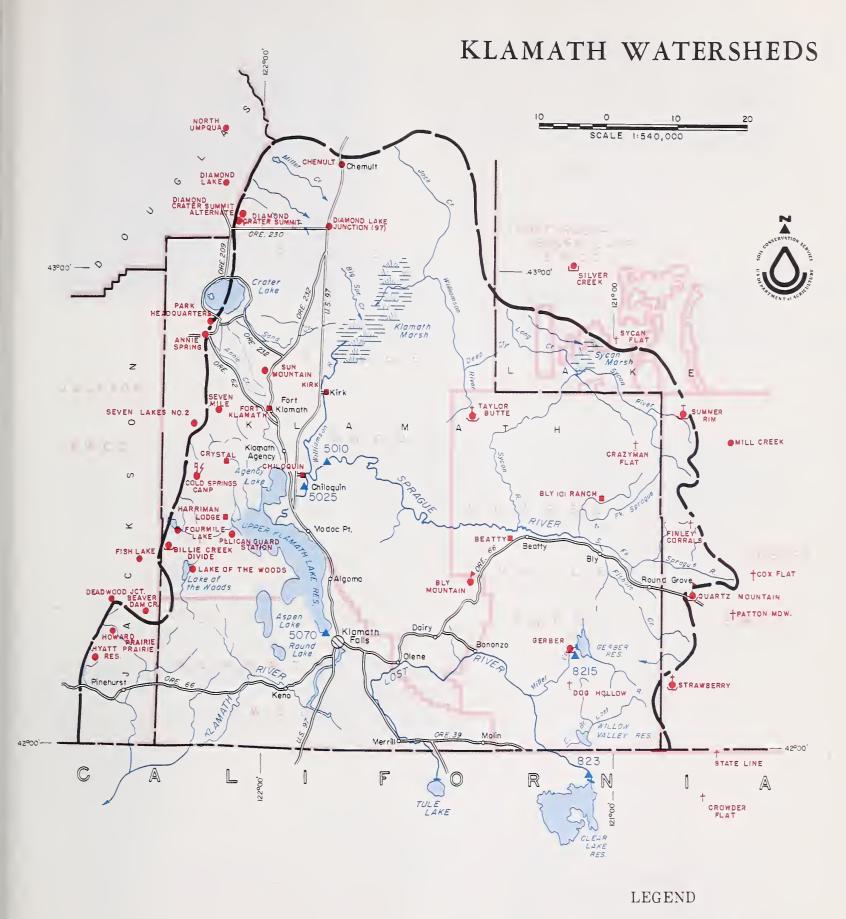
TREAMFLOW FORECASTS		THIS YEAR			PAST RECORD		
	FORE	CAST	FORECAST	THOUSAND ACRE FEET			
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average		
Clear Lake Reservoir Inflow	С						
Gerber Reservoir Inflow	С						
Sprague near Chiloquin	С	NOTE:	FORECASTS	BEGIN ON FEB.	1, 1972.		
Upper Klamath Lake net Inflow	С						
Williamson below Sprague River	С						

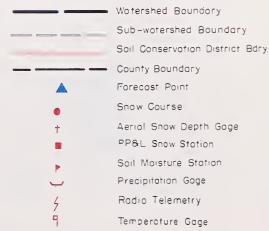
SOIL MOISTURE

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

JIL MUISTURE				KESEKANIK ZINKARE (1	liousaiiu	AC. FL.	END OF	MONTH	
RIVER BASIN	Number of	THIS YEAR	S YEAR'S MOISTURE as PERCENT OF: RESERVOIR			ole Usable Storage			
NIVER BASIN	Stations	Last Year	Average i	KESEKVOIK	Capacity	This Year	Last Year	Average	
Upper Klamath	1	82	76	Clear Lake Gerber Upper Klamath Lake	440.2 94.0 584.0	278.2 56.7 369.4		36.4	
				SUMMARY OF SNOW ME (COMPARISON WITH PREVIOUS RIVER BASIN and/or		er of	THIS YEA	R'S SNOW ERCENT OF	
				SUB-WATERSHED	Avera		st Year	Average	
				Lost River Sprague River Upper Klamath Williamson River	1 2 7 3		100 85 134 120	163 200 212 181	

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.









WATER SUPPLY OUTLOOK LAKE COUNTY, GOOSE LAKE WATERSHEDS OREGON

as of

JANUARY 1, 1972

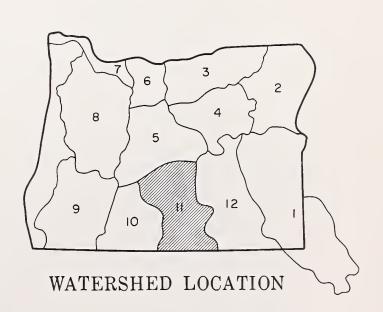
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GENERAL OUTLOOK

LAKE COUNTY, GOOSE LAKE WATER USERS WILL AGAIN HAVE EXCELLENT WATER SUPPLIES DURING THE 1972 SEASON. THE MOUNTAIN SNOWPACK IS NEAR LAST YEARS LEVELS OF BETTER THAN 200 PERCENT OF THE JANUARY 1 AVERAGE. AVAILABLE SOIL MOISTURE IS NEAR AVERAGE. DREWS RESERVOIR WAS HOLDING 39,000 ACRE FEET WHICH IS SLIGHTLY ABOVE THE JANUARY 1 AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

	Flow F	eriod
STREAM or AREA	Spring Season	Late Season
Chewaucan River Crooked Creek Deep Creek Dry Creek East Side Goose Lake Guano Lake Honey Creek Lakeview Water Users Assn. Rock Creek (Hart Mountain) Silver-Buck Creeks Summer Lake Thomas Creek Twentymile Creek Warner Lakes	the February Teport with the issued	hich will



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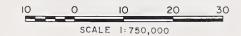
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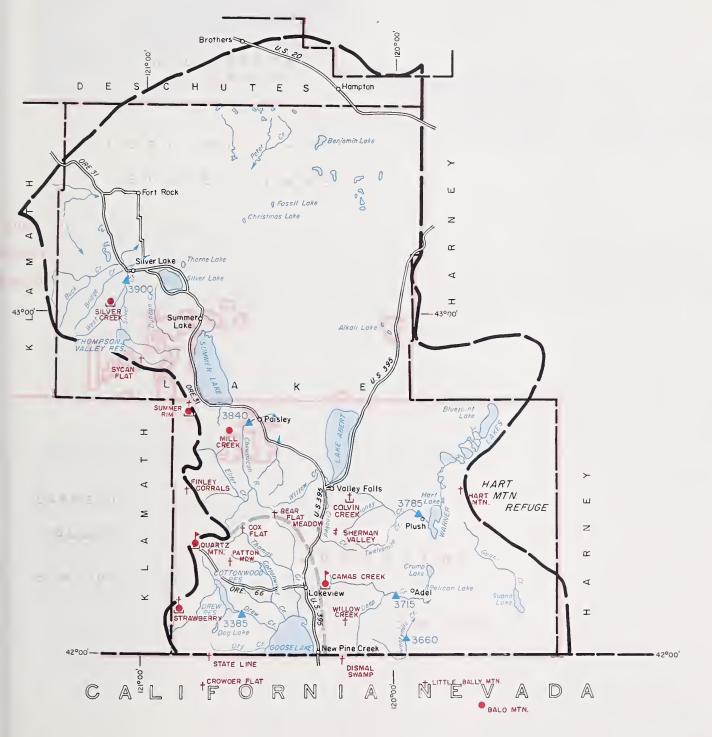
TREAMFLOW FORECASTS		THIS YEAR	R	PAST	RECORD	
	FORE	CAST	FORECAST	THOUSAND ACRE FEET		
BASIN, STREAM and/or FORECAST POINT	Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average	
Chewaucan near Paisley	с					
Deep above Adel	С		1			
Drews Reservoir net Inflow	C	NOTE:	FORECASTS BE	GIN ON FEB.	1, 1972.	
Honey near Plush Silver Creek near Silver Lake	c c					
Wentymile near Adel	c					
		`				

RIVER BASIN	Number		S MOISTURE ENT OF:	DECERVOIR	Usable	U	sable Sto	rage
MITER DAGIN	Stations	Last Year	Average i	RESERVOIR	Capacity	This Year	Last Year	Average
Chewaucan, Silver Creek, Drew Creek Honey, Deep, 20-mi. Cr	1	82 92	76 100	Cottonwood Drews Thompson Valley *Average for years of record after reconstruction.	8.7 63.0 19.5	8 39.0 6	3.0 41.4 b	2.1° 31.0 11.1
				SUMMARY Of SNOW ME (COMPARISON WITH PREVIOUS RIVER BASIN and/or SUB-WATERSHED		r of WA		R'S SNOW ERCENT OF Average i
				Chewaucan River Deep Creek Drew Creek Honey Creek Silver Creek Twentymile Creek	2 1 1 1 2 c		85 99 84 99 84	200 212 171 212 212

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

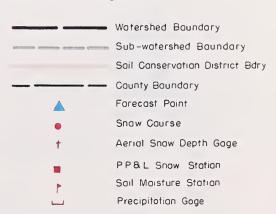
LAKE COUNTY, GOOSE LAKE WATERSHEDS







LEGEND







WATER SUPPLY OUTLOOK HARNEY BASIN WATERSHEDS **OREGON**

as of

JANUARY 1, 1972

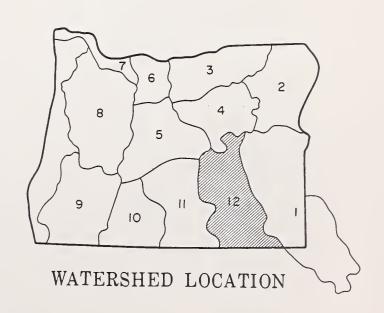
U. S. D. A. SOIL CONSERVATION SERVICE OREGON STATE UNIVERSITY ... OREGON STATE ENGINEER

GENERAL OUTLOOK

EXCELLENT WATER SUPPLIES ARE IN PROSPECT FOR HARNEY BASIN WATER USERS DURING THE 1972 SEASON. THE EARLY SEASON SNOWPACK IS MUCH ABOVE AVERAGE, ESPECIALLY AT THE LOWER ELEVATIONS. PRECIPITATION DURING DECEMBER WAS ABOUT 135 PERCENT OF AVERAGE AND FOR THE PERIOD OCTOBER THROUGH DECEMBER 113 PERCENT OF AVERAGE.

WATER SUPPLY MITTIMAK Expressed as "Poor, Fair, Average, Ex-

WATER SUPPLY UNITONK	celle	ent" With Respect	to Usual Supply
		Flow P	eriod
STREAM or AREA		Spring Season	Late Season
Catlow Valley Cow Creek Donner und Blitzen River Mill-Coffeepot Creeks Rattlesnake Creek Silver Creek Silvies River Soldier-Prather Creek Trout Creek Whitehorse Creek		the Febru report wh be issued	nich will



Report prepared by ...

T.A. GEORGE AND H.M. VANCE

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

1218 S.W. WASHINGTON ST. PORTLAND, OREGON 9720S

	THIS YEA	R	PAST RECORD			
FORI	ECAST	FORECAST	THOUSAND A	CRE FEET		
Thousand Acre Feet	Percent of Average	PERIOD	Last Year	Average		
c c c	NOTE:	FORECASTS BEG	IN ON FEB. 1	, 1972.		
	Thousand Acre Feet C C	FORECAST Thousand Acre Feet Percent of Average C C C NOTE:	FORECAST Thousand Acre Feet Percent of Average PERIOD C C C NOTE: FORECASTS BEG	FORECAST Thousand Acre Feet Percent of Average PERIOD Last Year C C C NOTE: FORECASTS BEGIN ON FEB. 1		

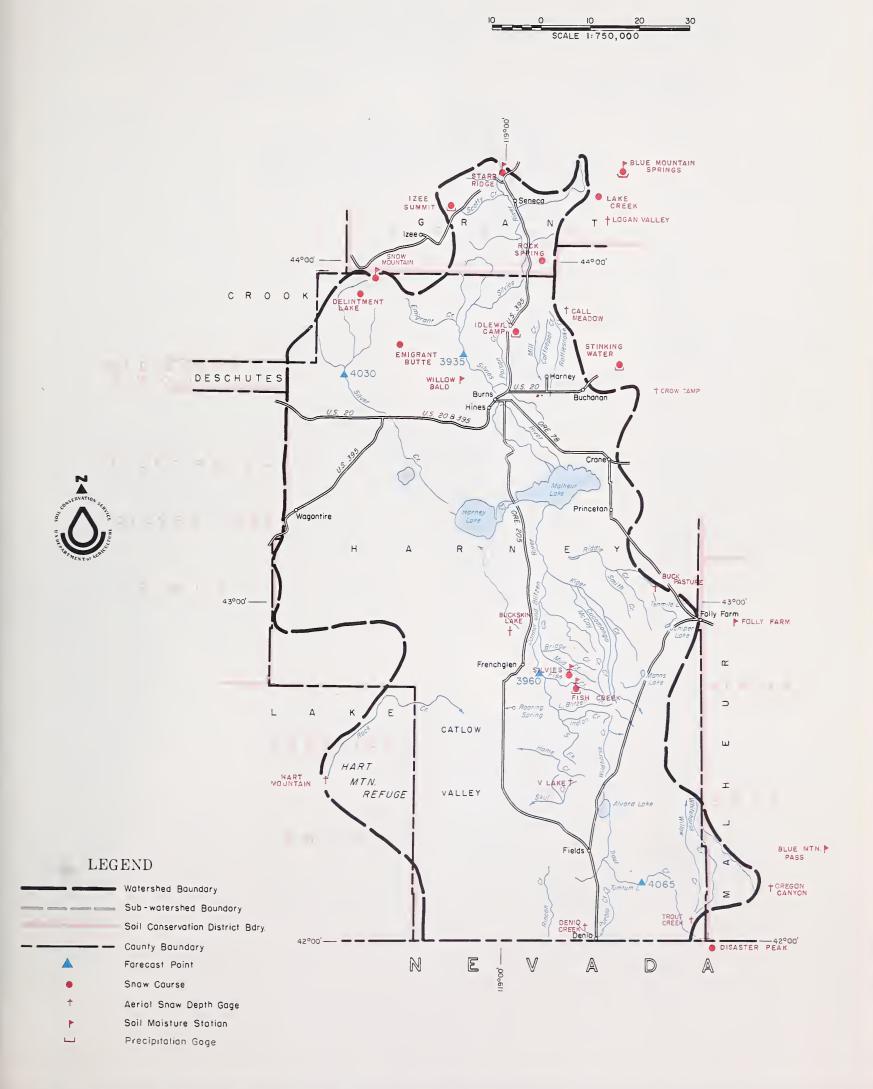
SOIL MOISTURE

SUMMARY OF SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN	Number of Stations	THIS YEAR'S	ENT OF:	RIVER BASIN and/or	Number of Courses	WATER AS	AR'S SNOW PERCENT OF
	Stations	Last Year	Average i	SUB-WATERSHED	Averaged	Last Year	Average i
Silvies River, Silver Cr. Trout Cr., Donner und Blitzen River	c			Donner und Blitzen R. Silver Creek Silvies River Trout Creek	1 c 4 c	75 137	231 255

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

HARNEY BASIN WATERSHEDS





BASIC DATA SUPPLEMENT 1

JANUARY 1, 1972

SNOW	THIS YEAR PAST REC.					SNOW	T	HIS YE	PAST REC.			
DRAINAGE BASIN and/or SNOW COURSE	Date	Snow Depth		Water (DRAINAGE BASIN - 1/ SHOW GO		Snow	Water Cont.	Water (
DRAINAGE BASIN and/ or SNOW COURSE	Survey			Last Yr.	Avet	DRAINAGE BASIN and/or SNOW COURSE	Survey			Last Yr.	Ave	
OWYHEE, MALHEUR	I R WATE	l RSHE	DS			BURNT, POWDER, PIN	I E GRAI	I NDE F	l RONDE .	1		
						IMNAHA WAT						
Antelope Ridge (Ida.) Battle Creek (Ida.)						Aneroid Lake #1 Aneroid Lake #2						
Bear Creek (Nev.)	1/4	44	12.8	11.0	6.6h		12/30	72	19.5	11.2	11.	
Big Bend (Nev.)	12/27			3.5		Bald Mountain (Ore.)						
	12/28			10.2			12/29		10.8	1 :	ł	
Blue Mtn. Springs Pillow Buck Pasture e	12/28		8.7	5.3		Beaver Reservoir (Alt.) Big Sheep e	12/29	32	13.2	6.2	-	
Buckskin, Lower (Nev.)						Blue Mtn. Summit	12/29	30	7.6	5.6	2.	
Buckskin, Upper (Nev.)						Bourne						
Bull Basin (Ida.)						County Line	12/30		7.1		2.	
Bully Creek e Call Meadow e						Dooley Mountain Eilertson Meadows	12/27		8.4 9.6		3.	
Columbia Basin (Nev.)						Eldorado Pass	12/29		3.7		1.	
Cottonwood-Indian e						Gold Center						
Crane Prairie						Goodrich Lake	12/29			24.6		
Disaster Peak (Nev.)	12/20	1.0	2 7	/ 0	1.2	Intake House	12/28			7.3		
Eldorado Pass Fawn Creek ^e (Nev.)	12/29	18	3.7	4.2	1.2	Little Alps Little Antone	12/30		11.3	1	4.	
Fish Creek						Lucky Strike	12/30		0.1	4.0		
Fish Creek Pillow*						Lucky Strike Pillow*						
Flag Prairie ^e						Meacham	12/29	48	12.8	2.6	2.	
Fox Creek (Nev.)	10/00	0.0		2 5	0 0 0	Mirror Lake e						
	12/28		4.8		2.3 ^h 1.6 ^h	Moss Spring Power Plant	12/28	22	5.8	4.3	_	
Granite Peak (Nev.)	12/2/	21	4.0	2.0	1.0	Schneider Meadows	12/20	22	٥. ر	4.5	_	
Hyde Pasture (Ida.)						Schoolmarm	12/30	29	7.0	1.4	1.	
Jack Creek, Lower (Nev.)						Stanley e						
Jack Creek, Upper (Nev.)						Taylor Green	10/00	100		'		
Jack Peak (Nev.)	12/20	27	0 6	7 0	3.6^{h}_{l}	Tipton Span Billon	12/29			7.2	1	
Lake Creek R.S. Laurel Draw (Nev.)	12/28	34	8.6	7.2	3.67	Tipton Snow Pillow Tollgate	12/29		9.3	8.8	8.	
Logan Valley e						TV Ridge e	12/30	1,0	23.3	10.0	0.	
Lookout Butte e												
Louse Canyon						*Manometer reading.						
Martin Creek (Nev.)												
Merritt Mountain (Nev.) Midas (Nev.)							1				}	
Mud Flat (Ida.)												
Oregon Canyon e						UMATILLA, WALLA WALL	I .A. WT	LI.OU	I ROCE	 ζ.		
Quinn Ridge ^e (Nev.)						LOWER JOHN DAY						
Red Canyon'e (Ida.)	12/20	22	- 1	/ 0	1 6	A-bushla Mauntain						
Rock Spring Rodeo Flat (Nev.)	12/29			2.5	$\begin{bmatrix} 1.6 \\ 2.4^{h} \end{bmatrix}$	Arbuckle Mountain Arbuckle Mtn. Pillow*						
76 Creek (Nev.)	1/4	27	8.0			Battle Mountain Summit	12/20	26	6.2	1.7	0.	
Silver City (Ida.)	12/28			11.1		Blue Mountain Camp	12/30	50		5.4		
Silvies						Emigrant Springs	12/29	42	10.4	2.4	1.	
Silvies Pillow*	10/07	1	11 1	10.0	2 ch	High Ridge Pillow*	1					
South Mountain #2 (Ida.) Stag Mountain * (Nev.)	12/2/	38	11.1	10.0	3.6 ^h	Lucky Strike Lucky Strike Pillow*						
Stinking Water	12/29	13	3.0	4.0	1.3h		12/29	48	12.8	2.6	2.	
Succor Creek e (Ida.)						Tollgate	12/30	76	23.3	10.6	8.	
Taylor Canyon (Nev.)	12/27	21	4.2	2.6	1.6^{h}_{1}	Weston Mountain	12/30	6	0.6	0.6	-	
Toe Jam e (Nev.)	12/20	10	2.0	0.0	0.4	Manamatar Pandina						
Tremewan Ranch (Nev.) Triangle (Ida.)	12/28	10	2.0	0.9	0.4"	*Manometer Reading.						
Trout Creek ^e	İ											
"V" Lake ^e												
Vaught Ranch (Ida.)												
War Eagle ^e (Ida.)												
*Manometer Reading.												
Taromotor Reading,												

BASIC DATA SUPPLEMENT 1 JANUARY 1, 1972

SNOW	ТН	IS YE	AR		REC.	SNOW	TI	HIS YE	AR	PAST	
DRAINAGE BASIN and/or SNOW COURSE			Water Cont	(incl		DRAINAGE BASIN and/or SNOW COURS	E of	Depth		Water C (inch	nes)
	Survey	(ln.)	(ln.)	Last Yr.	Avet		Survey	(ln.)	(ln.)	Last Yr.	Av
UPPER JOHN DAY	WATE	RSHEI	DS I			HOOD, MILE CREEKS, WATERS		DESC	CHUTES	5	
Anthony Lake	12/30	72	19.5	11.2	11.0						
Arbuckle Mountain	c					Brooks Meadows	C			- 0	_
Arbuckle Mtn. Pillow*	12/20	26		1 -	0.9	Clear Lake	12/21		8.8		
Battle Mountain Summit	12/30		6.2			, ,	12/21		12.9		
Beech Creek Summit	12/27		7.2	4.4 10.2		Cooper Spur (Alternate)	1/3	32	9.9	12.3	6
Blue Mountain Springs Blue Mtn. Springs Pillow	12/28		8.7				C				
Blue Mountain Summit	12/29		7.6			Knebal Springs Parkdale	1/3	0	0.0	3.6	
Derr	c c	30	7.0	٥.٥	2.9	Phlox Point	12/22			26.7	
East Fork Canyon ^e	C					Red Hill	c c	154	77.1	20.7	20
Gold Center	c					Still Creek	12/21	68	19.0	11.0	-
Indian Creek Butte e	c					Still Creek (Alt. #2)	12/21		18.9		
Izee Summit	12/27	28	6.6	4.9	2.7h		c	"			
Lucky Strike	c					Tilly Jane	c				
Lucky Strike Pillow*	c					Ulrich Ranch Junction	c				
Marks Creek	1/3	24	6.1	3.3	1.3	Umbrella Falls	1/1	138	51.6	29.8	١.
Ochoco Meadows	C					Upper Valley	1/3	10	4.0	1	
Olive Lake ^e	c										
Schoolmarm	12/30	29	7.0	1.4	1.8						
Snow Mountain	c										
Snow Mtn. Pillow*	c					WILLAMETTE W	ATERSE	IEDS			
Starr Ridge	12/29		6.4				1	1			
Tipton	12/29		9.6			Cascade Summit	12/28		22.0		
Tipton Snow Pillow	12/29		9.3			Champion	12/29	84	27.1	30.0	:
Williams Ranch	12/30	17	3.3	= 0		Clackamas Lake	C				
						Clear Lake	12/21		8.8	1	1
*Manometer reading.						Clear Lake (Experimental)	12/21		12.9	1	
	1]		Dead Horse Grade	12/30		15.8	7.4	
						Detroit (Town)	12/29		2.5	2.8	
						Detroit Dam	12/29		1.0		
						Golden Curry Creek	12/29		9.2		
						Hogg Pass	12/29 c	193	28.0	22.7	L
IIDDED DECCILITES CO	OUED	፤ ፒያለ ጥኮ	DCHED	l S		Lake Harriet	1	72	22 (
UPPER DESCHUTES, CRO	JUKED	WAIL	roue D	ا		Laurel Mountain	12/30 12/29		22.6		
Caldwell Ranch	c					Layng Creek Lookout Point Dam**	12/29		0.0	0.0	•
Cascade Summit	12/28	72	22 0	16.6	10 3	Lost Creek Ranch	12/30		5.6	1	1
Chemult	12/30		6.9			Lund Park	12/29	1	0.1		1
Derr	c c	21	0.9	0.9	+•+	Marion Forks	12/29			10.8	
Hogg Pass	12/29	93	28 N	22 7	13.9	Marys Peak	c c		7.1	10.0	-
Hungry Flat	1/1	22	5.1			Marys Peak (Alt.)	c				
Irish-Taylor	C		7.1	0.5		McCredie Springs	12/28	9	3.0	т —	
Irish-Taylor Pillow*	12/30	_	26.3	20.9		McKenzie	2/30			22.8	
Marks Creek	1/3	24	6.1				2/30		0.0		
New Crescent Lake	c	- '		,,,	- 1	Mill City	2/29		0.5	0.0	
New Dutchman Flat #2	1/1	95	37.4	32.9		Oakridge	2/28		0.0		
Ochoco Meadows	c					Peavine Ridge	c				
Snow Mountain	c	}				Peavine Ridge Pillow	1/1	-	16.5		-
Snow Mtn. Pillow	С					Phlox Point	12/22	2 134	45.1	26.7	
Tamarack	С					Railroad Overpass		18			(
Tangent	1/1	50	15.0	18.3	o =	Saddle Mountain	12/28		19.9		
Three Creek Butte	c					Salt Creek Falls	12/28		12.7		1 4
Three Creek Meadow	С					Santiam Junction	12/29		17.8		7
Three Creek Mdw. Pillow	c		,			Siene Creek	12/30			7.9	:
Waldo Lake	c					Still Creek	12/21		19.0		7
Willamette Pass	c					Still Creek Alt. #2	12/21		18.9	10 0	-
Willamette Pass Pillow*	No	rep	ort			Timothy Lake Valsetz Summit	1/4	47	12.9		2
dem 1						Valsetz Summit	12/30	41	13.4	0 0	6
*Telemetry readings.						Vida Waldo Lake	12/30 c	0	0.0	0.0	0
								11	2.0	0.0	
						Weaver Creek	12/29		2.2	0.9	0
						White Branch Slide Whitewater Bridge	12/30			7.3	1
						Willamette Pass	12/29 c	23	6.4	6.0	1
							l ·	ron	rt		
							INO	Lebo	1	}	
						**Known as Meridian Dam					
						Willamette Pass Willamette Pass Pillow ***Known as Meridian Dam.	l ·	repo	rt		

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1972

SNOW	ТН	IIS YE	AR	PAST	REC.	SNOW	TI	HIS YE	AR	PAST REC.		
	Date				Content hes)			Snow	Water	Water (Content hes)	
DRAINAGE BASIN and/or SNOW COURSE	of Survey	Depth (In.)		Last Yr.	Avet	DRAINAGE BASIN and/or SNOW COURSE	of Survey	Depth (in.)	Cont. (In.)	Last Yr.	Ave.+	
							<u> </u>					
ROGUE, UMPQUA	WATER	ı SHED:	I S			KLAMATH WAT	I ERSHEI	I DS				
Althouse	c					Annie Spring	12/30	80	24.4	29.4	14.9	
Althouse #2	c			,		Beatty (PP&L)	c					
Annie Spring	12/30				14.9	Billie Creek Divide	12/28			11.3	7.3	
Beaver Dam Creek Big Red Mountain	12/31 c	45	13.5	9.8	4.6 ^m	Bly Mountain Bly 101 Ranch (PP&L)	DISC	DNII	NUED			
Billie Creek Divide	12/28	67	20.8	11.3	7.3 ^h	Chemult	12/30	27	6.9	6.9	4.1	
Caliban	c 12/29	0,	27 1	20.0	7.7 ^h	Chiloquin (PP&L)	C					
Champion Cold Springs Camp	12/29 c	04	2/.1	30.0	/./	Cold Springs Camp Cold Springs Camp Pillow	1/1	-	20.9	20.7		
Cold Springs Camp Pillow	1/1	-		20.7		Crazyman Flat e	С					
Deadwood Junction	12/31 12/30		9.6		3.3h 14.0h		c 12/29	26	7 5	8.2	3.5	
Diamond-Crater Summit Diamond-Crater Sum. Alt.	1	repo	1	17.0	14.0%	Diamond-Crater Summit	12/30			17.6		
Diamond Lake	12/30	50	14.4			Diamond-Crater Sum. Alt.		rep				
Fish Lake	12/28	45	12.4	9.6	5.3	Diamond Lake Jct. (97) Dog Hollow ^e	12/30	18	4.3	4.5	2.0	
Fourmile Lake Grayback Peak	c c					Finley Corrals e	c					
Howard Prairie	12/31		6.9			Fort Klamath (PP&L)	12/31	15	3.5	3.6	1.3	
Hyatt Prairie	12/31 12/28		8.9	7.2	1 1	Fourmile Lake Gerber	1/3	12	3.0	1.8	1.1	
King Mountain #1 King Mountain #2	12/28		7.5			Harriman (PP&L)	12/31		7.5	6.5	1.3	
King Mountain #3	12/28	14	3.0	1		Hyatt Prairie Reservoir	12/31		8.9	1		
King Mountain #4 King Mountain #5	12/28	1	0.9		1 1	Kirk (PP&L) Lake of the Woods	12/31 12/28		8.0 10.1	1	i .	
King Mountain #6	12/28] U.U	1	1 1	Park Headquarters	12/30	107	36.2	1	21.6	
Little Red Mountain	c					Pelican Guard Station	DISC	1	1	4.9	2.4	
Mt. Ashland Switchback Mule Creek	12/28	60	17 9	12.5		Quartz Mountain Quartz Mountain (Ext.)	12/29		4.1			
North Umpqua	12/28		11.5				С					
Page Mountain	c	1.0-	06.0	25.0	01	Seven Mile	C					
Park Headquarters Red Butte #1	12/28	51	36.2	12.2	21.6 4.3 ^h	State Line ^e (Calif.) Strawberry	c					
Red Butte #2	12/27	32	9.0	9.7	0.6	Summer Rim	c					
Red Butte #3	12/27					Summer Rim Pillow	DISC	ONTE T	NUED			
Red Butte #4 Red Butte #5	12/27			2.5		Sun Mountain Sycan Flat ^e	c	DNII	NOLD			
Red Butte #6	12/27		1.8			Taylor Butte	12/28	18	4.7	5.5	2.0	
Seven Lakes #2	c c	:						1				
Seven Mile Silver Burn	12/28	43	11.7	11.4	4.4			1				
Siskiyou Summit	12/27	27	6.4	11.4	2.4	LAKE COUNTY, GOOSE	LAKE	WATE	RSHED:	S		
Siskiyou Summit Alt, #2	12/27	27	6.9	11.5		Adin Mountain (Calif.)						
Ski Bowl Road South Fork Canal	12/28	17	4.1	6.0	1.3							
Trap Creek	1/5	37			4.1 ^h	Bear Flat Meadow e	70/00	107	7 0	7 2	2 /	
Whaleback	С					Camas Creek Cedar Pass (Calif.)	12/30	2/	/.2	7.3	3.4	
						Colvin Creek e						
						Cox Flat e						
						Crowder Flat (Calif.) Dismal Swamp (Calif.)						
						Finley Corrals e						
						Hart Mountain e			Ì			
						Little Bally Mtn. (Nev.) Mt. Bidwell (Calif.)						
						North Star (Calif.)						
						Patton Meadows e	12/29	22	4.1	4.9	2.4	
						Quartz Mountain Quartz Mountain (Ext.)	$\frac{12}{29}$		4.1	1		
						Sherman Valley e						
						Silver Creek	12/30	11	2.5	3.1	1.4	
						State Line ^e (Calif.) Strawberry						
						Summer Rim						
						Summer Rim Pillow Sycan Flat ^e						
						Willow Creek						

BASIC DATA SUPPLEMENT 1

JANUARY 1, 1972

WOW	TH	HIS YE	AR		REC.	SNOW	(TI	HIS YE	PAST REC		
AINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Cont.		Content thes)	DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (In.)	Water Cont, (In.)	Water ((incl Last Yr.	nes)
HARNEY BASIN V	VATERS	HEDS	1								
Slue Mountain Springs Slue Mtn. Springs Pillow* Suck Pasture * Suckskin Lake * Sall Meadows * Selintment Lake Senio Creek * Disaster Peak (Nev.) Chigrant Butte Sish Creek Sish Creek Sish Creek Pillow* Sart Mountain * Sidlewild Camp Sidlewild Camp Sidlewild Camp Silves R.S. Dregon Canyon * Sock Spring Silvies Pillow* Snow Mountain Snow Mountain Starr Ridge Stinking Water Crout Creek * SManometer reading.	12/28 12/28 c c c c c c c c 12/27 12/28 12/29 12/29 12/29	22 20 28 34 23	1	4.3 	1.4 2.7 h 3.6 h						

flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953–67 adjusted average. (i) 1953–67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2 JANUARY 1, 1972

SOIL MOISTURE

Name	1		e (Inches)	Date of		Moisture (Inc	
	Elevation	Depth	Capacity	Survey	This Year	Last Year	Average
	OLDARD MAI	MEND HATT	EDGHEDG				
	OWYHEE, MAI	HEUR WATE	ERSHEDS				
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend (Nev.)	6700	48	16.7	12/27	12.4	13.2	15.4
Blue Mountain Spring	5900	42	16.9	12/29	5.8	10.6	9.1
Crane Prairie Folly Farm	5375 4450	48 30	18.2 12.5	c	}		
Jack Creek, Lower (Nev.)	6800	48	8.6	с			
Jordan Valley	4390	48	19.3	Ь		15.9	14.6
Mud Flat (Ida.)	5500	48	12.8	С			
Rodeo Flat (Nev.)	6800	42	11.0	12/28	6.2	7.4	10.3
Taylor Canyon (Nev.)	6200	48	15.1	12/27	9.4	9.7	13.2
Triangle (Ida.)	5150	48	16.6	С			
BURNT, POWD	ER, PINE, GRA	NDE RONDE	E, IMNAHA W	VATERSHEDS			
Blue Mountain Summit	5100	36	16.8	12/29	8.9		9.2
Dooley Mountain	5430	36	9.2	12/27	6.7	4.2	3.7
Emigrant Springs	3925	48	22.3	12/29	22.3	20.1	17.2
Ladd Summit	3730	48	18.9	12/30 c	10.0	10.9	9.8
Moss Springs	5850 5070	36 48	25.8 23.6	12/30	15.0	16.4	10 7
Tollgate	3070	40	23.6	12/30	13.0	10.4	19.7
UMATILLA, WALLA	WALLA, WILLOW	, ROCK, L	OWER JOHN	DAY WATERS	SHEDS		
Battle Mountain Summit	4340	48	13.8	12/30	12.2	12.6	11.5
Emigrant Springs	3925	48	22.3	12/29	22.3	20.1	17.2
Tollgate	5070	48	23.6	12/30	15.0	16.4	19.7
	UPPER JOHN	DAY WATE	RSHEDS				
	1						
Battle Mountain Summit	4340	48	13.8	12/30	12.2	12.6	11.5
Beech Creek Blue Mountain Spring	4800 5900	48 42	21.3 16.9	12/30 12/29	8.4 5.8	8.7 10.6	10.9
Blue Mountain Summit	5100	36	16.8	12/29	8.9	10.6	9.1
Derr	5670	24	9.0	c c	0.9		9.2
Marks Creek	4540	36	14.1	ь		10.9	10.2
Snow Mountain	6300	48	16.7	c			
Starr Ridge	5150	36	10.6	12/29	9.0	10.6	8.8
Williams Ranch	4500	42	17.9	12/30	17.7	17.5	16.3
UP	PER DESCHUTES	, CROOKED	WATERSHED	S			
Derr	5670	24	9.0	с			
Marks Creek	4540	36	14.1	ь		10.9	10.2
Snow Mountain	6300	48	16.7	С			
				DCHEDC			
HOOD, M	ILE CREEKS, L	OWER DESC	HUTES WATE	KSHEDS			
	ILE CREEKS, LO	OWER DESCI	HUTES WATE	1/3	14.2	14.2	
HOOD, M	3490		26.4		14.2	14.2	
	3490	72	26.4			14.2	

BASIC DATA SUPPLEMENT 2 JANUARY 1, 1972

SOIL MOISTURE

DRAINAGE BASIN and/or			e (Inches)	Date of		Moisture (Inc	
Name	Elevation	Depth	Capacity	Survey .	This Year	Last Year	Average
	LAKE COUNTY, GO	OSE LAKE	WATERSHEDS				
0 1	1		1		11.0	10.0	11 0
amas Creek uartz Mountain	5720 5230	42 48	14.5 15.3	12/30 12/29	11.9	12.9 8.3	11.9 8.9
	HARNEY BA	SIN WATER	SHEDS				
lue Mountain Spring	5900	42	16.9	12/29	5.8	10.6	9.1
ish Creek olly Farm	7900 4450	48 30	15.0 12.5	c c			
ilvies	6900	48	16.4	с			
now Mountain tarr Ridge	6300 5150	48 36	16.7 10.6	c 12/29	9.0	10.6	8.8
illow-Bald	5000	24	6.6	6	9.0	6.5	4.7
	-						
						-	
					1		
						:	
			1				
	j						
						-	

⁽a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1953-67 adjusted average. (i) 1953-67, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

JANUARY 1, 1972

ECIPITATION (Inches)		CURRENT IN	FORMATION	PAST RECORD		
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	Date of Reading	Precip- itation	Last Year	Average	
amas Creek (Lake County)	5825	11/30 to				
ounty Line (Umatilla County)	4800	12/30 11/30 to	4.60	5.90		
		12/30	3.90	2.60		
				!		
		,				
•						



NAE!	LOCATION ELEV	NAMER NAME	FOCULTION ELEV	NUMBER I	PANE LOCATION ELEV	NUMBER	NAME	SIC UND RGI FOCATION EFEA	NUMBER	NAK	PEC IND HGE EFEA	trumber	NAVE	FEC 100 MM1 EFEA	I AUMBER	HAME GOCATION ELEN
15/35 Sear Creek (Nev) 3 15/4MF Fear Creek (Nev) 3 15/4MF Fear Creek (Nev) 3 15/4MF Fear Creek (Nev) 3 15/4MF Fear Creek (Nev) 3		16H3AP Midas 1667MP Mud Flat 17G5a Oregon Canyon 17H6a Quinn Ridge 16G1la Red Canyon 18H6MP Rodeo Flat 15H3A 76 Creek 16F3AP* Silver City 18G1MPA Silvies 16G1P South Mountain 18H19a Stag Mountain	(Nev) 18 39N 46E 7200 (Ida) 34 9S 2W 5500 9 40S 40E 6950 (Nev) 9 47N 41E 6300 (Ida) 32 11S 4W 6500 (Nev) 36 43N 53E 6800 (Nev) 36 44N 58E 7100 (Ida) 6 5S 3W 6440 35 32S 324E 6900 No.2(Ida) 10 8S 5W 6340 (Nev) 32 41N 58E 7800		e 32 16S 36E 4750 10 16S 33',E 5120 y 13 16S 33',E 5100 23 18S 32E 5100 ow Cr. 2 16S 37E 5500	18E23 18E30 18E28 17D7P	Little Alps Little Antone Power Plant Taylor Green Pine Cre Schneider Meedows Grande Rande	35 6S 45E 5400	19D2P 18E1P 19D2P 18D12MP	Willow Cree! Arbuckle Mountain Anthony Lake UPPER JOHN DAY WAT Upper John Day Arbuckle Mountain Battle Mountain	33 4S 29E 5400 18 7S 37E 7125 ERSHEDS (4) River 33 4S 29E 5400	21E6 21E4 22E3 21E5 21E3 21E8 22E4 21E7	Hogg Pass Marion Porks Mill City Santiam Junction Whitewater Bridge McKenzie Ri Dead Horse Grade Lost Creek Ranch McKenzie	24 13S 7½E 4755 28 11S 7E 2730 29 9S 3E 626 14 13S 7E 3990 20 10S 7E 2175 /er 13 16S 7E 3800 24 16S 6E 1956 35 15S 7 E 4800	21G6a 20G14a 22G12 21G4P 22G26 22G16 22G15 22G5 22G25 20G6MP 22G11	Dog Hollow
Total Rein (Ida) 2 Enths Columbia Resin (Ner) 3 Enths Columbia Resin (Ner) 3 Enths Creek (Nev) Enths Fish Creek (Nev) Enths Fish Creek (Nev) Enths Fish Creek (Nev) 3 Enths First Sampon (Nev) 3 Enths Cold Creek (Nev) 3 Enths Schild Creek (Nev) 3 Enths Schild Creek (Nev) 3	P 12S SN 5600 L 44N 53E 6650 8 47N 34E 6500 2 45N 52E 7000 8 3SS 33E 7900 8 3SS 38E 4450 8 46N 58E 6800 L 43N 54E 6700 L 45N 56E 6600 1 44N 39E 7800 8S 2W 5800	16F66 Sucor Creek 15H9MP Taylor Canyon 16H7a Toe Jam 15H8 Tremewan Ranch 16G4MA Triangle 18G5a Trout Creek 18G7a "W" Lake 16G12a Vaught Ranch 16G13a War Eagle	(Ida) 25 3S 5W 6100 (Nev) 35 39N 53E 6200 (Nev) 29 40N 50E 7700	18E13M Blue Mounts 17E1MP Dooley Moun 18E2O Eldorado Pa 18E8 Gold Center 18E9P Tipton	tain 32 11S 40E 5430 ss 20 14S 38E 4600	17D1 17D2P 18E1P 17D10a 18D9 18D8P 18D6P 18D5 17D13a 17D6M 18D7	Aneroid Lake No. 1 Aneroid Lake No. 2 Anthony Lake Bald Mountain Beaver Reservoir County Line Lucky Strike Meacham Mirror Lake Moss Spring Schoolmarm	16 43 45E 7480 16 43 45E 7300 18 75 37E 7125 14 8 15 48 41E 6700 8 55 37E 5150 28 45 34E 4800 28 35 32E 5050 24 8 25 1S 35E 4300 34 48 44E 8200 28 38 41E 5850 28 45 34E 4775	19E2M 18E16MP 18E13M 19E3MP	Beech Creek Summit 3: Blue Mountain Springs Blue Mountain Summit Derr East Fork Canyon Gold Center		22E5 22E6 21E9 22F3 22F6 22F8 22F7 22F5	McKenzie Bridge Vida White Branch Slide Middle Fork Willamet Cascade Summit McCredie Springs Meridian Dam Oakridge Railroad Overpass	13 16S 5E 1372 28 16S 2E 800 15 16S 7E 2800	22G3,3 20H1 a 20G9AP 20G2AP 21G2 20G13 a 21G3P	Seven Maile 20 33S 6E 572
Stand Jack Dreek, Lower (Nev) 1: 1888 Jack Peak (Dper (Nev) 2: 1884 (Nev) 2: 1885 Lookent Butte 1984 Louis Carpon 2: 1984 Louis Carpon 2: 1984 Louis Carpon 2: 1984 Louis Carpon 2: 1985 Louis Carpon 2: 1984 Louis Carpon 2: 1984 Louis Carpon 2: 1985 Louis Carpon 2: 1984 Louis Carpon 2: 1984 Louis Carpon 2: 1985 Louis Carpon	\$ 42N \$3E 6800 42N \$3E 7250 42N \$3E 8420 \$6E 4390 45N \$3E 6700 46S 47E 5650 40S 44E 6440 44N 40E 6700	Moltise State Stat	28 298 35E 5700 10 175 37E 5500 29 205 33E 5340 10 198 39E 4320	18E1P Anthony Lak 18E5 Bourne 17E1MP Docley Moun 18E3 Eilertson M 18E8 Gold Center 18E6A Goodrich La 18E29 Intake Hous 17D12m Ladd Summit	e 18 7S 37E 712S 33 8S 37E 5800 tain 32 11S 40E 5430 eadows 18 8S 38E 5400 21 9S 36E 5340 ce 4 9S 38E 6775 e 5 8S 38E 4930	17D11a 17D7P 18D3M 17D16a	Standley Taylor Green Tollgate TV Ridge No. 2 Imnoho Ri Aneroid Lake No. 1 Aneroid Lake No. 2	28 2S 42E 7400 3 6S 42E 5740 32 4N 38E 5070 12 2S 43E 7000	18E7 9 18D7 19F1M 19E7M 18E9P 18E25MP	Olive Lake Schoolmarm Snow Mountain Starr Ridge Tipton Williams Ranch UPPER DESCHUTES, CROOKE	14 9S 34E 6000 28 4S 34E 4775 1 19S 25E 6300 20 15S 31E 5150 34 10S 35!,E 5100 20 1SS 32E 4500	22F4 22F2P	Salt Creek Falls Waldo Lake Willamette Pass Coost Fork Willomet Champion Golden Curry Creek Layng Creek R. S. Lund Park Weaver Creek	32 22S 5½E 4000 15 21S 6E 5600 33 24S 5½E 5600	1 10 3 4 5 8 6	Beatty (PP&L) 22 36S 12E 4300
24 23 C Lower	22 W	A S H	20 19 I N G	18 N	17 16	19D2P 18D12MP 18D4M 18D6P 18D5	UMATILLA, WALLA WALL LOWER JOHN DAY W Umotillo R Arbuckle Mountain Battle Mountain Summ Emigrant Springs Lucky Strike Meacham	ATERSHEDS (3)	21E11 21F8 22F3 21F11 21F20P 21E6 21F4 21F6* 21F17 21F10	Black Pine Spring Caldwell Ranch Cascade Summit Chemult Deer Creek Hogg Pass Hungry Flat Irish-Taylor Mowich New Crescent Lake	14 16S 9E 4600 30 21S 8E 4400 7 23S 6E 4880 21 27S 8E 4760 25 20S 7E 4554 24 13S 7½E 4755 30 18S 11E 4400 25 20S 6E 5500 11 24S 6E 4800	23E1 23E2 23E3	Mory's Rive Mary's Peak Luckiomule Ri Laurel Mountain Valsetz Summit	r 21 12S 7W 3620 ver 6 8S 7W 3000 3 9S 7W 2500	20G8MP 20G1LA 20H2a 20H3a 20G17a 20G6MP 20H1a 20G9AP	Bear Flat Meadow
D		22701 22023 2023 2026 22024 2026 22020 2026 22020 2026 2020 2026 2030 2026 2030	Umotilla, Wallo Wallo. Willaw, Rock, Lower John Day		Pawder, Pine de Ronde, Imnoha	18D3M 18D16 18D3M 18D17	Tollgate Wollo Wollo Blue Mountain Camp Tollgate Weston Mountain	32 4N 38E 5070	21E16 21F3 21E15 21E13 22F2P 22F14*	New Dutchman Flat #2 Tangent Three Creeks Butte Three Creeks Meadows Woldo Lake Willamette Pass Crooked Rive	21 18S 9E 6400 28 18S 10E 5400 27 16S 9E 5200 34 16S 9E 5650 15 21S 6E 5600 33 24S 59E 5600	23D2 23D1 23G4P	Tuoloiin Rive Seine Creek Saddle Mountain ROGUE, UMPOUA WAT Rogue River Althouse	34 18 5W 2000 25 18 6W 3250 ERSHEDS (9)	20G15a 20G18ap 20G11A 20G14a 20G4 20G6MP	Aberi Loke Bear Flat Meadow 27 368 19E 5900 Colvin Creek 12 368 21E 6550 Cox Flat 16 378 18E 5750 Finley Corrals 11 368 16E 6000 Mill Creek 1 348 17E 6200 Quartz Mountain 2 388 16E 5320 Sherman Valley 15 37S 21E 6600
2552 V. 2552 V. 2553	- Willome tre		Upper John Da	1827 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	TOTA 1707 17090 #				20E1MP 20E2 19F1M 19E4 HOO	Marks Creel Ochoco Meadows Snow Mountain Tamarack D, MILE CREEKS, LOWER DES Hood Rive Brooks Meadows	25 12S 19E 4540 21 13S 20E 5200 1 19S 26E 6300 8 1SS 25E 4800 CHUTES WATERSHEDS 161	22G6 22G28 22G21P 22G13P 22G30 22G27 22F19 22G14P 22G12 23G3	Annie Spring Beaver Dam Creek Big Red Mountain Billie Creek Divide Caliban Deadwood Junction Diamond-Crater Summit Fish Lake Fourmile Lake Grayback Peak	19 31S 6E 6018 1 38S 4E 5100 30 36S 5E 5300 16 40S 1E 6500 8 38S 4E 4600 34 28S 6E 5800 2 37S 4E 4865 9 36S 5E 6000 9 40S 5W 6000	21F12P	Summer Lake Summer Rim 22 335 16E 7200
	2266 ZZE	2155 2166 2152 0167 21610 2152 0167 21610 2152 0167 21610 2152 0167 21754 Upper Deschu	20Es 19E4	9027 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Constant of the control of the contr				21D25M 21D1 21D20 21D23 21D6* 21D4 21D9 21D28 21D7P 21D21	Cooper Spur Greenpoint Reservoir Knebal Springs Parkdale Phlox Point Red Hill Still Creek Switchback Tilly Jane Ulrich Ranch Junction	6 2S 10E 3490 27 2N 9E 3200 31 1S 11E 3850 5 1S 10E 1770 7 3S 9E 5400 20 1S 9E 4400 25 3S 86,E 3670 28 1S 9E 6000 28 1S 11E 3350	2 2 3 2 6 2 2 3 1 6 2 2 3 2 2 2 2 3 3 1 2 3 3 1 4 2 3 3 5 2 2 3 5 2 2 3 5 2 2 3 1 1 2 3 2 3 2	Howard Prairie Hyatt Prairie Reservoir Little Red Mountain Mt. Ashland Switchback Mule Creek Page Mountain Park Headquarters Seven Lakes No. 2 Silver Burn Siskiyou Summit	25 40S 2W 6500 15 40S 1E 6400 8 32S 9W 3680 5 41S 7W 4045 8 31S 6E 6550 26 33S 5E 6200 30 30S 4E 3720 17 40S 2E 4630	20G8MP 20H3a 19G1a 20G10a 20G16a	Canas Creek 5 39S 21E 572C Dismal Swamp (Cal) 31 48N 22E 720C Hart Mountain 1 36S 25E 635C Sherman Valley 15 37S 21E 660C
F	22F13 22F6 22F6 22F6 22F6 22F6 22F6 22F6 22F		oke County, oose Loke	1073 0-10F4	-				21D30 21D24 21D6P 21D20 21D21	Umbrella Falls Upper Valley Mile Creeks - Mosi Brooks Meadows Knebal Springs Ulrich Ranch Junction	2 2S 10E 4300 31 1S 11E 3850	22G32 22G9 22G1 22F9 22F18P 23G8	Ski Bowl Road South Fork Canal Whaleback Umpqua River Champion Diamond Lake King Mountain No. 1	12 23S 1E 4500 29 27S 6E 5315 5 33S 4W 4500	19Gla 19H4a 18F7a 19F2	Hart Mountain
Rogue, 1	02/23 02/23 02/23 02/24 02	\$22719 \$21718 \$21712 \$20072 \$2	Har	eléc:	1703 1663 1663 1663 1663 1663 1663 1663 16	·s			21D12 21D22 21E6	Lower Deschutes Clear Lake Clear Lake Experimental Hogg Pass LOWER COLUMBIA WA Sandy River	29 48 9E 3500 29 48 9E 3500 24 138 7E 4755	23G9 23G10 23G11 23G12 23G13 22F16 22F23 22F24 22F25	King Mountain No. 6 North Umpqua Red Butte No. 1 Red Butte No. 2 Red Butte No. 3	4 33S 4W 4000 33 32S 4W 3049 33 32S 4W 3049 0 6 28 32S 4W 2380 20 32S 4W 1820 19 26S 6E 4215 36 27S 2W 4560 30 27S 1W 3000 30 27S 1W 3000	18F3P 19E9P 18F1 19F1M 19E7M 18F4P 19F4m	Idlawild Camp 27 20S 31E 520C Izee 2menit 28 16S 29E 5293 Rock Spring 23 18S 32E 510C Show Mountain 1 19S 26E 630C Stark Ridge 20 15S 31E 515C Starking Water 33 21S 34E 480C Willow-Bald 19 22S 29E 500C Donner Und Blitzen River
Grant tang Gra	220140 22	2025 el 2005 2015 e205 2016 2006 2006 2006 2006 2006	20015 20018 2001 2000 20017 2000 20016	1607e	116610 leGize leGy leGy leGize leGy leGize leGy leGy leGy leGy leGy leGy leGy leG	€15H2O	ΣΗΕΙ *Θ ΙΙΝ2		21D8* 21D9	Phlox Point Still Creek WILLAMETTE WATE Clackamas R	7 3S 9E 5400 25 3S 8 ¹ / ₂ E 3670 RSHEDS (8) iver 35 SS 8 ¹ / ₂ E 3400	22F26 22F27 22F28 22F17 22G1	Red Butte No. 4 Red Butte No. 5 Red Butte No. 6 Trap Creek Whaleback KLAMATH WATERSH Klomath Rive	20 27S 1W 2500 17 27S 1W 2000 1 27S 4E 3800 4 31S 2E 5025	18F6a 18G2MPA 19G1a 18G1MPA 18G7a	Buck Pasture 21 29S 35E 5700
SNOW COURSES AND DATA MEASURIN OREGO	G SITES	O R N I A	# Store Recedency Store Recedency	Population	17H2 017H2 17H46 017H3	ISHS ISHS ISHS ISHS ISHS ISHS ISHS ISHS	NS		21D12 21D14P* 21D8* 21D9	Clear Lake	29 4S 9E 3500 4 & 15 6S 7E 3500 7 3S 9E 5400 25 3S 8 5 3670	22G6 22G13P 21G5M 21F11 22G24* 20G12a 20H2a 22F19 21F18	Chemult Cold Springs Camp Crazyman Flat	19 31S 6E 6018 30 36S 5E 5300 4 22 37S 11E 5090 21 27S 6E 4760 12 3SS 5E 6100 9 34S 15E 6100 30 47N 11E 5200 34 28S 6E 5800 1 29S 7E 4600	18G6a 18H1 17G5a 18G5a 18G5a	Denio Creek
1972			Surreginal Com 9,000 to 97, Surreginal Com Over 23,000 Tomor Over 24,000 Tomor Over 24,000 Tomor Over 25,000 Tomor Ove	D Popularion Wanded Bo avilation S.A. a to the	megantery Salin						Map and	Index	to OREG	ON SNOV	w cc	OURSES



The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon State University
Oregon State Engineer and Corps of State Watermasters
Oregon State Highway Engineers
Soil and Water Conservation Districts of Oregon

COUNTY

Douglas County Water Resources Survey FEDERAL

Department of Agriculture
Cooperative Extension Service
Forest Service
Soil Conservation Service
Department of Commerce
NOAA, National Weather Service
Department of the Interior
Bonneville Power Administration
Bureau of Land Management
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
National Park Service

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Department of National Defense Corps of Army Engineers

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City of Baker City of La Grande City of The Dalles City of Walla Walla

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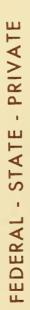
PRIVATE ORGANIZATIONS

Arnold Irrigation District Associated Ditch Companies Burnt River Irrigation District Central Oregon Irrigation District East Fork Irrigation District Grants Pass Irrigation District Hood River Irrigation District Jordan Valley Irrigation District Juniper Flat Irrigation District Lakeview Water Users, Incorporated Medford Irrigation District Middle Fork Irrigation District North Board of Control - Owyhee Project North Unit Irrigation District Ochoco Irrigation District Rogue River Valley Irrigation District South Board of Control - Owyhee Project Squaw Creek Irrigation District Talent Irrigation District Tumalo Project Vale-Oregon Irrigation District Warmsprings Irrigation District

The Crag Rats, Hood River, Oregon

UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE 1218 S.W. WASHINGTON ST. PORTLAND, OREGON 97205

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